

FILE NOTATIONS

Entered in NID File✓
Location Map Pinned✓
Card Indexed✓

Checked by Chief
Approval Letter
Disapproval Letter

PWB
7-20-73

COMPLETION DATA:

Date Well Completed

Location Inspected

OW..... WW..... TA.....

Bond released

GW..... OS..... PA.....

State or Fee Land

LOGS FILED

Driller's Log.....

Electric Logs (No.)

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... Mi-L..... Sonic.....

CBLog..... CCLog..... Others.....



1110 DENVER CLUB BUILDING
518 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-573-5665

July 17, 1973

Mr. Cleon B. Feight
Utah Division of Oil & Gas Conservation
1588 West, North Temple
Salt Lake City, Utah 84116

Re: Anschutz #1 State 428
SW SE Sec. 5 -16 S-22 E
Grand County, Utah
State Lease 27428

Dear Mr. Feight:

Transmitted herewith in triplicate is the APPLICATION FOR PERMIT TO DRILL (Form DOGC-1a) for the captioned well with survey plats and development plan for surface use attached.

For topographical reasons we request permission to drill this well not at the center of the quarter-quarter section.

Yours very truly,

THE ANSCHUTZ CORPORATION

W. W. Wakefield
W. W. Wakefield
Vice President

WWW:kcw
Enclosure

cc Mr. Donald Prince
Division of State Lands
State Capitol Bldg.
Salt Lake City, Utah 84110

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS

5. Lease Designation and Serial No.

State lease 27428

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil
Well ☒Gas
Well ☐Other ☐Single
Zone ☐Multiple
Zone ☐

2. Name of Operator

The Anschutz Corporation

3. Address of Operator

1110 Denver Club Building, Denver, Colorado 80202

4. Location of Well (Report location clearly and in accordance with any State requirements.*)

At surface

NE SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 5

874' NSL

1850' REL

At proposed prod. zone

7. Unit Agreement Name

8. Farm or Lease Name

State 428

9. Well No.

1

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk.
and Survey or Area

5-16S-22E

14. Distance in miles and direction from nearest town or post office*

Approximately 30 miles northwest of Harley Dome, Utah

12. County or Parrish

Grand

13. State

Utah

15. Distance from proposed*

location to nearest
property or lease line, ft.
(Also to nearest drlg. line, if any)

446'

16. No. of acres in lease

2160 m/1

17. No. of acres assigned
to this well

18. Distance from proposed location*
to nearest well, drilling, completed,
or applied for, on this lease, ft.

19. Proposed depth

9100

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

7325 KB

7313 GL

22. Approx. date work will start*

10-1-73

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
15"	10 3/4" ✓	45 ✓	300' ✓	200 sx (circulated) ✓
9 7/8"	7 5/8" ✓	26	8200' ✓	100 sx ✓
6 1/2"	4 1/2"	13-15	9000'	200 sx
	or 5 1/2"			

We propose to drill this well to an approximate total depth of 9000' in the Entrada formation. Customary BOP equipment will be used. We will drill under surface casing with air, changing to mist and mud as hole conditions require. Electric logs will be run to total depth, no cores are planned. Drill stem tests will be run as warranted. If production is encountered, casing will be set through the pay section and selectively perforated; fracing or acidizing may be necessary to stimulate production.

Survey plats are attached.

Development plan for surface use attached.

Blanket drilling bond on file.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed W. W. WakefieldTitle Vice PresidentDate 7-17-73

(This space for Federal or State office use)

Permit No.

43-019-30169

Approval Date

Approved by

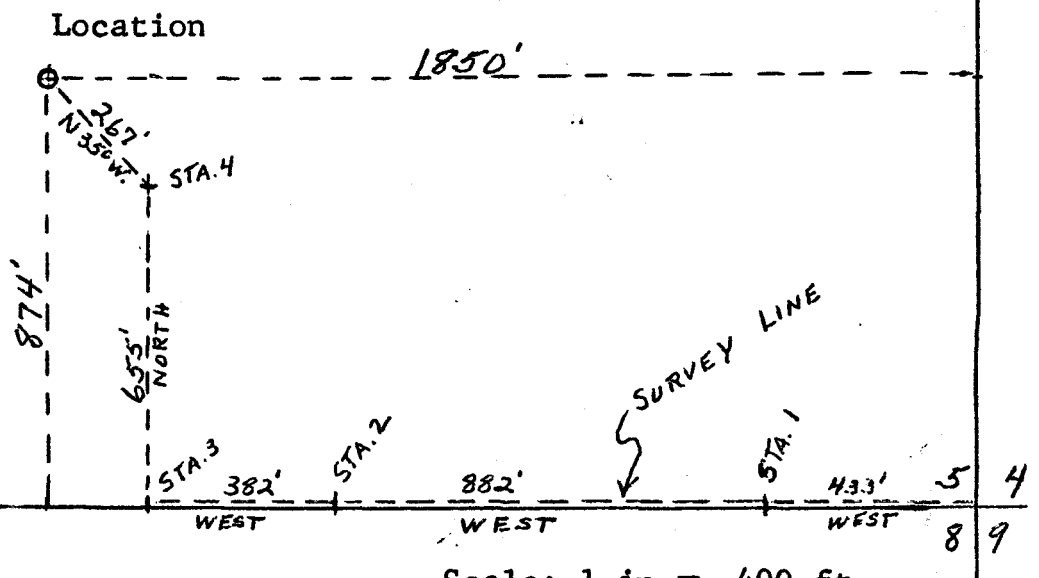
Title

Date

Conditions of approval, if any:

LOCATION PLAT
FOR
ANSCHUTZ # 1 STATE 428 WELL
SW. SE. SEC. 5-16S-22E.
GRAND COUNTY, UTAH
Elev.: 7313' grd.

SE $\frac{1}{4}$ SECTION 5



Scale: 1 in. = 400 ft.

Date: July 9, 1973

Surveyed by: W. Don Quigley

W. Don Quigley
PLAT NO. 1

LOCATION PLANS FOR
ANSCHUTZ #1 STATE 428 WELL
SW.SE.SEC.5-16S-22E
GRAND COUNTY, UTAH

1. A survey plat (Plat No.1) is attached showing the location of the well. Map No.1 shows the route to the well site from Hwy 50-6 (I-70).
2. Map No.2 shows the access road to the well site from present roads. The proposed road will be built along the flagged route on the ground.
3. All present wells and dry holes in the area around the proposed well site are shown on Map No.2.
4. See 1 and 2 above.
5. A plan for the location of production equipment at the well site, if the well is successful, is shown on Plat No.2. If oil, a pump jack, heater-treater, and tank battery will be installed. If gas, a dehydrator, flow lines, and fluid tank will be installed. This is a wildcat well and there are no nearby facilities.
6. Water for drilling purposes can usually be obtained from some of the springs in the area or from Westwater Creek if the springs are not running. Bitter Creek should also have water. The water will be hauled to the well site by truck.
7. A plat showing the plan for placement of the drilling equipment to be used in the drilling of the proposed well is shown on Plat No.3. This plat shows the reserve pit and garbage (burn) pit. Excess drilling mud, waste water, and cuttings will be deposited into the reserve pit during drilling operations. The garbage and burnable material will be put into the burn pit. At the completion of the well these pits will be folded-in and levelled.
8. See location of house trailers on Plat No.3.
9. The airstrip at the Cherry Canyon well on the east edge of Map No.2 will probably be used for flying in crews and supplies.
10. See Plat No.3 for the drilling equipment layout.

11. There is some topsoil and grass sod on the location site. The topsoil will be pushed aside in a pile as much as possible and will be returned to cover the location, when the well is abandoned. The area is on a ridge between canyons; and the ridge is relatively flat. Tall grass and a few juniper trees ~~x~~ cover the ridge. After the well is abandoned, the well site will be cleaned and levelled and the pits will be folded-in. The location will be reseeded and restored to its natural state as nearly as possible.
12. Access to the location is quite readily afforded by the present roads. The road down Camp Ridge will have to be grade and widen for truck use. The new road required will be on relatively flat surfaces and will require no rock work or blasting. The amount of grading will be minimal.

State 428 Well No. 1
SW SE Sec. 5, T-16S, R-22E
Grand County, Utah

INITIAL COMPLETION DATA

Completion Date: 1-29-74 TD: 9880' PBD: 9849'
Producing Zone: Cedar Mountain Depth: 9810' - 9839'
24 hr. Initial Potential: 449 MCFPD

PRESENT COMPLETION DATA

Producing Zones: Dakota Depth: 9685' - 95', 9778' - 82'
 : Mancos : 7618.5' - 7632.5'

Production Tests: Due to liquid build up it is difficult to assess.

LEASE DATA

No. of Acres: 320 No. of Producing Wells Remaining: 0
No commercial production to date from CDR MTN, Dakota, or Mancos.

ENGINEERING COMMENTS:

The subject well was drilled to a TD of 9880' and a 4½" O.D. liner was set in 7" O.D. casing at 9879' with the top @ 5850'. Initial completion took place in January 1974, and consisted of perforating the 4½" casing in the Cedar Mountain formation from 9810' to 9839' and stimulating with 40 MCF of N₂ dissolved in 2,000 gal. 15% HCl (MCA) and 30 bbls flush water. The pay was then fractured with 37,000 gal. oil condensate and 50,000# 20/40 sand. On 24 hr. I. P. the subject well tested 449 MCF on 3/4" orifice with an occasional fluid shig. Completion costs were estimated at \$110,000.

There was no commercial production to date, when in September 1974, they rigged up to perforate and fracture new pay which had been discovered in the offset State 913 Well No. 1. The Dakota was perforated from 9685' - 95' and the Cedar Mountain from 9778' - 82'. A RBP was set below 9782' and a packer above 9685' and the perfs were treated with 1,100 gal. 15% HCl (MCA). While preparing to fracture the perfs, the frac tubing parted at the 4-1/2" to 2-3/8" swage. It took 1½ months to recover most of the fish (341' of 2-3/8" O.D. tubing). From 5' to 8' of 2-3/8" tubing could not be recovered and was pushed to 9679'. On 11-11-74, the new perfs were fractured by the Keil process with 105,000 gal. 2% KCl water and 25,000# 100 mesh sand. The 4-1/2" casing was then perforated in the Mancos formation from 7618.5' - 32.5'. No stimulation has been performed on the Mancos. An Otis perma-trieve packer and sliding sleeve was set between

the Mancos and Dakota, and the well was swabbed and tested for 51 days, from 11-15-74 to 1-6-75. Liquid build ups and loading problems hampered economic production and the well was shut in with good 2-3/8" O.D. tubing and a Baker Lot Set packer left in the hole. The estimated costs ran \$150,000.

The subject well was re-entered in January, 1981, in an attempt to put the well on production. The production packer was stuck and was successfully fished. An Otis type "B" perma-trieve packer previously set at 9646' was then milled on and pushed down to 9697'. Due to 5' to 8' of junk 2-3/8" tubing stuck at 9697', the work string parted while spearing the packer. Successful fishing retrieved the packer, however, the short piece of junk tubing was shoved to 9712' and is still in the hole. A RBP was set at 9712' and the perfs from 9685' - 9695' were treated with 22 MCF of N₂ dissolved in 2,000 gal. of 5% HCl and 20% Methanol. The well was swabbed two weeks and showed brief spurts of gas. The work over tab ran to \$235,000. The well is currently inactive and shut in.

Review of sample cuttings, electrical & porosity logs, the driller's log, and offset wells indicate no producing horizons above the ones tested.

The well is not necessary for SWD.

MEW/jm

JOHN C. KEYHART & CO.
GRAND JUNCTION LABORATORIES

435 NORTH AVENUE

PHONE 242-7618

GRAND JUNCTION, COLORADO 81501

ANALYTICAL REPORT

Received from: Anschutz Oil Company
Denver Colo.

Customer No. State 428-1 Laboratory No. 1831 Sample Water

Date Received	<u>March 1, 1974</u>	Date Reported	<u>March 1, 1974</u>
Sample	State 428-1		
Sodium(Na)	4850 mg/L	210.8 me/L	
Calcium(Ca)	840 " "	41.9 " "	
Magnesium(Mg)	370 " "	30.4 " "	
Chloride(Cl)	10802 " "	304.6 " "	
Sulfate(SO ₄)	230 " "	4.78 " "	
Carbonate(CO ₃)	0.00 " "	-	
Bicarbonate(HCO ₃)	212 " "	4.23 " "	
Iron(Fe)	750 " "		
Solids-Total, Dissolved	20780 " "		
Solids After Ignition	18030 " "		
Specific Gravity 60/70°F	1.016		
Resistivity	0.355 ohms/Meter		
Ph	6.4		

By

Keyhart

JOHN C. KEPHART & CO.
GRAND JUNCTION LABORATORIES

435 NORTH AVENUE

PHONE 242-7618

GRAND JUNCTION, COLORADO 81501

ANALYTICAL REPORT

Received from: Anschutz Corp.

Customer No. State-428-1 Laboratory No. 1792 Sample Water

Date Received Feb. 14, 1974 Date Reported Feb. 15, 1974

Sample

Sodium(Na)	5750 mg/L	250.01 me/L
Calcium(Ca)	910 " "	45.4 " "
Magnesium(Mg)	400 " "	32.89 " "
Chloride(Cl)	11400 mg/L	321.48 " "
Sulfate(SO ₄)	230 " "	4.78 " "
Carbonate(CO ₃)	0.00	-
BiCarbonate(HCO ₃)	120 mg/L	1.96 me/L
Iron(Fe)	950 " "	
Total Solids(Dissolved)	21600 mg/L	
Solids After Ignition	20090 " "	
Specific Gravity60/70°F	1.022	
Resistivity(Ohms Meter)	0.33	
Ph	5.05	

RECEIVED

FEB 19 1974

By

J. Kephart

JOHN C. KEYHART & CO.
GRAND JUNCTION LABORATORIES

435 NORTH AVENUE

PHONE 242-7618

GRAND JUNCTION, COLORADO 81501

Analysis, Water

Vital, Southeastern

ANALYTICAL REPORT

Received from:

Anschutz Corp.

Denver Colo.

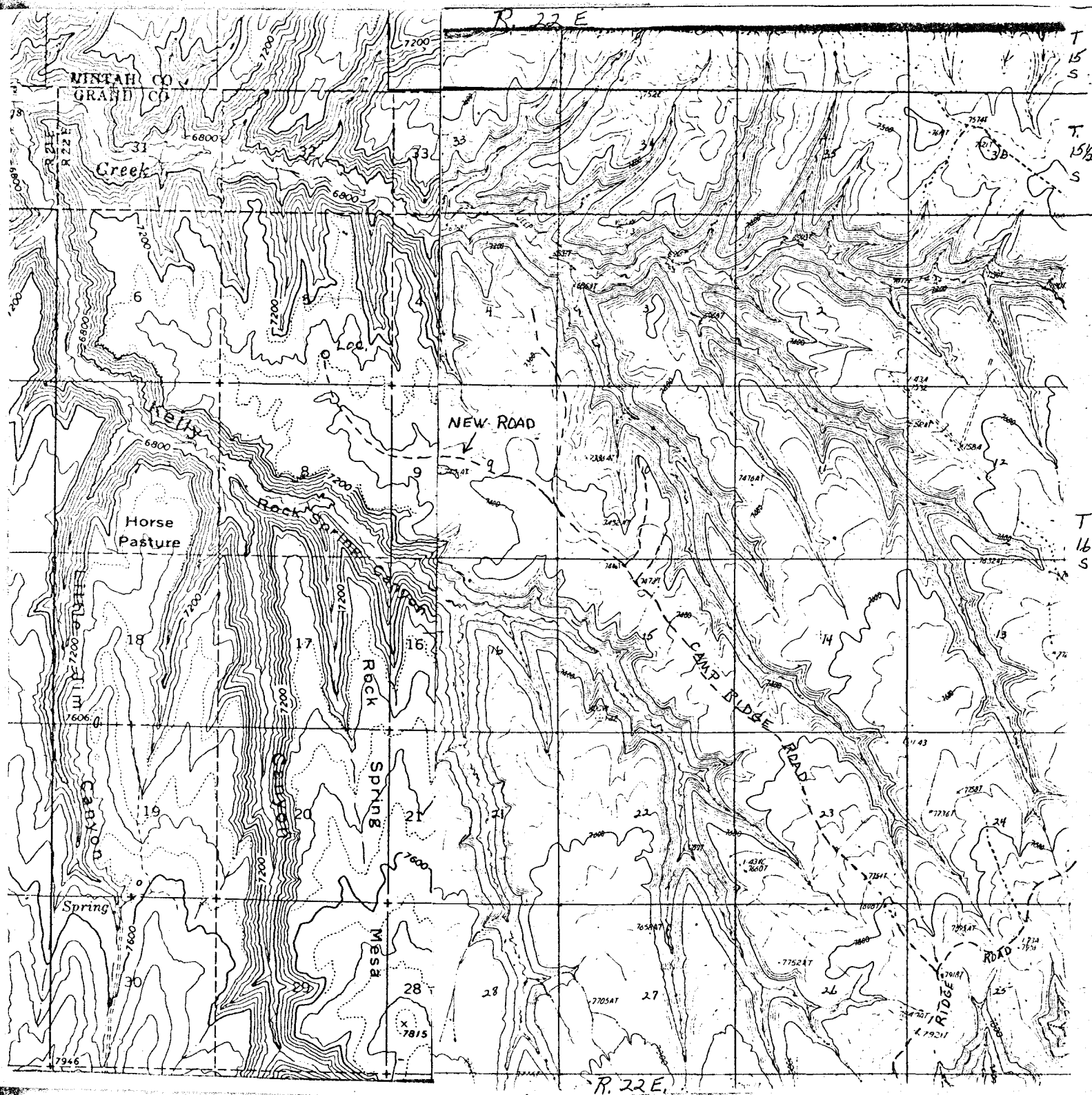
Customer No. _____ State 428 #1 Laboratory No. 1757 Sample Water

Date Received Feb. 5, 1974 Date Reported Feb. 6, 1974

Sample	State 428 # 1	
Sodium(Na)	4359 mg/L	189.5 me/L
Calcium(Ca)	1370 mg/L	68.3 me/L
Magnesium(Mg)	500 mg/L	41.1 me/L
Chloride(Cl)	12960 mg/L	365.4 me/L
Sulfate(SO ₄)	169 mg/L	3.51 me/L
Carbonate(CO ₃)	0.00	-
Bicarbonate(HCO ₃)	107 mg/L	1.75 me/L

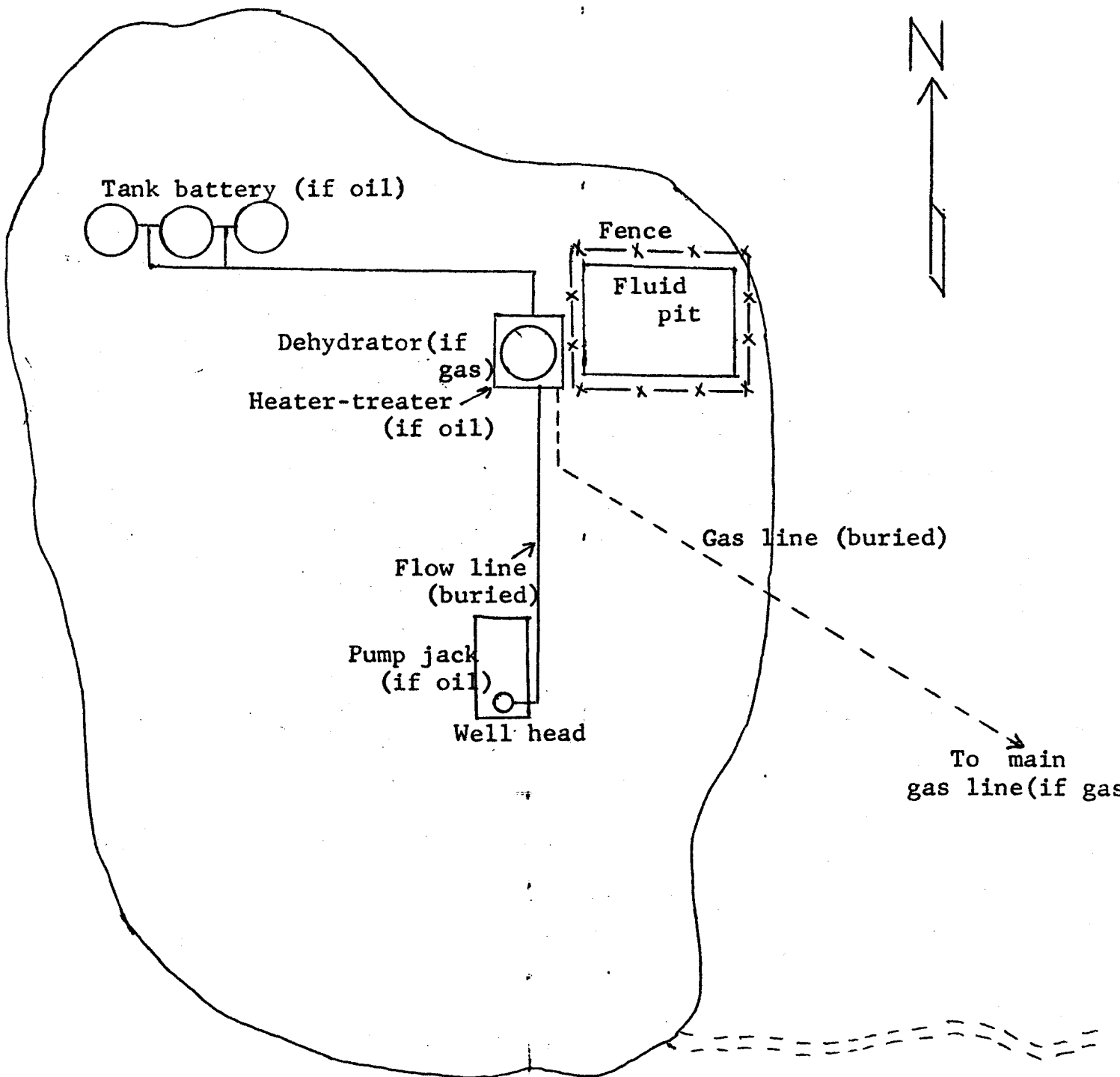
Total Solids(Dissolved)	22100 mg/L
Solids After Ignition	19240 mg/L
Specific Gravity 60/70 F	1.021
Resistivity(Ohms Meter)	0.29
Ph	5.3

By J. Keyhart



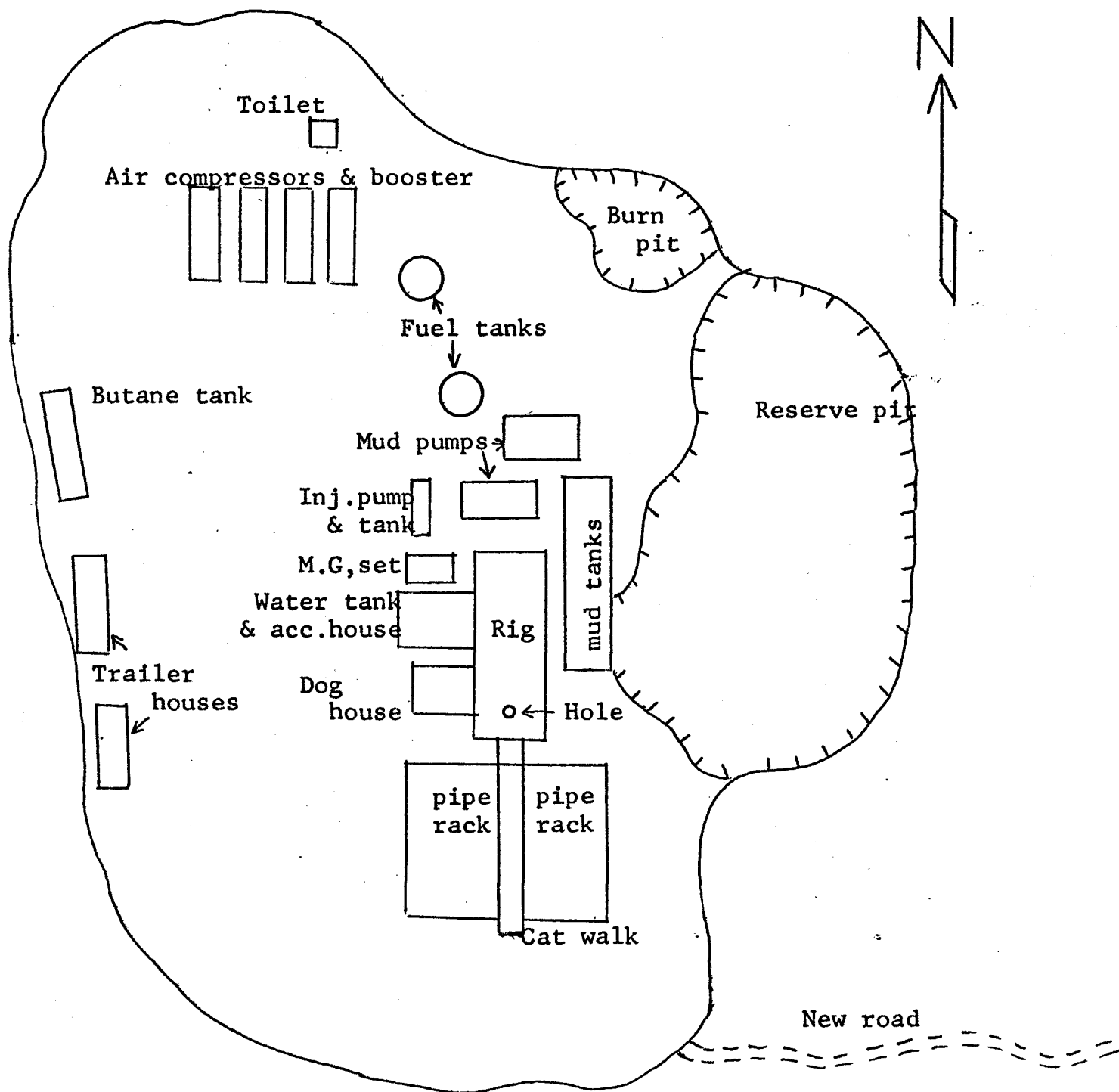
MAP NO. 2

PLAN FOR PRODUCTION EQUIPMENT
ANSCHUTZ #1 STATE 428
SW.SE.SEC.5-16S-22E
GRAND COUNTY,UTAH



Plat No.2

LOCATION PLAN FOR
ANSCHUTZ #1 STATE 428 WELL
SW. SE. SEC. 5-16S-22E
GRAND COUNTY, UTAH



Scale: 1 in. = approx. 75 ft.

PLAT NO. 3

R 21 E

N

BEARING FROM SOUTH LINE, SE 1/4, SEC. 33

1976 (CALC.)
EAST

884 (CALC.)
SOUTH

ANSCHUTZ 9-21-1
O.G. ELEV. 7776

34

N 24° 10' E
481.8 (SURVEYED)

N 0° 02' W 5280 (RECORD)

N 0° 01' W 5280 (REC.)

33 34

FD. B.C.
C.C.

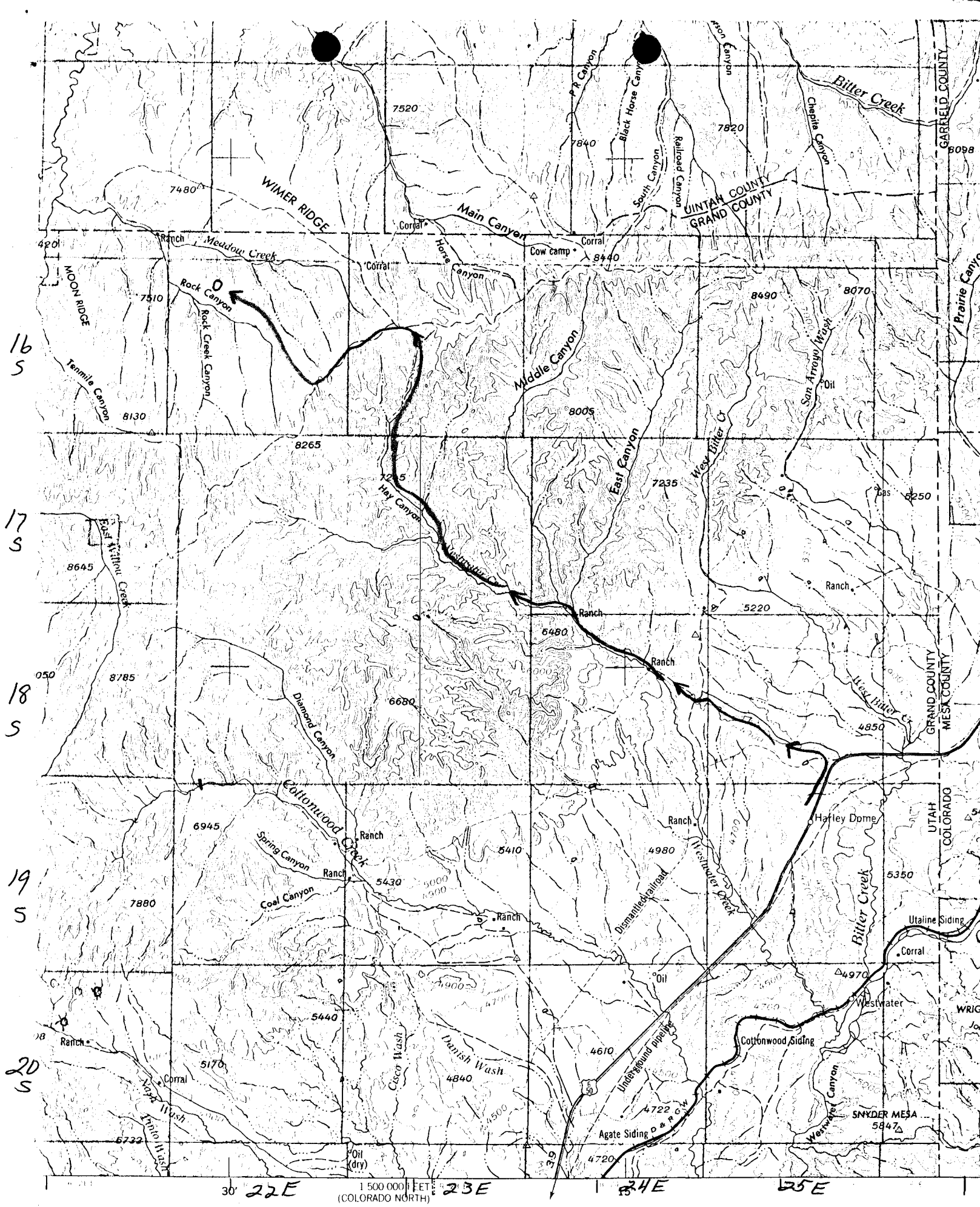
FD. B.C. 1680 1/2 (REC.) 43 5280 (REC.) EAST, TOTAL S. LINE SEC. 34

PLAT OF ANSCHUTZ 9-21-1 WELL LOCATION
IN NE 1/4 NW 1/4, SEC. 34, T16S, R21E, S1.B. & M.
GRAND COUNTY, UTAH
SCALE: 1" = 1000' DEC. 27, 1977
DISTANCE METER SURVEY

ELEV. BY VERT. ANGLES FROM U.S.G.S. TOPO.
QUAD. "TENMILE CANYON, UTAH" 1963, SW COR.,
SEC. 34 = 7840



UTAH REG'D. L.S. N^o 1963



LEGEND

ROAD DATA 1956

Figures in red denote approximate distances in miles between stars

LOS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee
Sun Valley

ROADS

Hard surface, heavy duty
More than two lanes wide
Two lanes wide; Federal route marker
Hard surface, medium duty
More than two lanes wide
Two lanes wide; State route marker
Improved light duty
Unimproved dirt
Trail

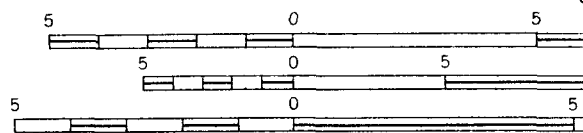
3 LANES 4 LANES
3 LANES 4 LANES
11

Multiple

Landplane airport
Landing area
Seaplane airport
Orchard
Woods brushwood



Landmarks: School, Church; Other
Horizontal control point
Spot elevation in feet
Marsh or swamp
Intermittent or dry stream
Power line



CONTOUR
WITH SUPPLEMENTARY
TRANSVERSE

1955 MAGNETIC DECLINATION FOR THIS SHEET
EDGE TO 14° 45' EASTERLY FOR THE CENTER

FOR SALE BY U.S. GEOLOGICAL SURVEY,

MAP NO. 1

July 20, 1973

The Anschutz Corporation
1110 Denver Club Building
Denver, Colorado 80202

Re: Well No. State 428-#1
Sec. 5, T. 16 S, R. 22 E, SLBM
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the General Rules and Regulations and Rules of Practice and Procedure. However, said approval is conditional upon placing sufficient cement behind the 7 5/8" casing to cover or isolate any significant zones of porosity, hydrocarbons, or water.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-019-30169.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
cc: Division of State Lands

4

PT
JLB

July 20, 1973

The Anschutz Corporation
1110 Denver Club Building
Denver, Colorado 80202

ATTENTION: W. W. WAKEFIELD

Dear Mr. Wakefield:

This office has received the copy of your letter of July 17, 1973 concerning your application for permit to drill the Anschutz #1 State 428 Well in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 5, Township 16 South, Range 22 East, on lands covered by Utah State Oil, Gas and Hydrocarbon Lease ML 27428.

This is to advise you that this office has no objection to the drilling of this well, but would suggest that there are a few items which you ~~should~~ be aware of as you enter upon this land. As you know, this land is located on Cedar Camp Ridge and is part of the State land block owned by the Division of State Lands in the Bookcliffs area of northern Grand County. The Division of State Lands has invested a considerable amount of money in range improvements on these lands, and the lands covered by ~~this~~ specific location are in an area which was reseeded in 1972 and on which there is no grazing being permitted at the present time.

As you are aware, there are two drift fences crossing said Cedar Ridge in a northeast southwest direction. These fences have gates located where the road crosses each fence. However, these gates may not be wide enough to accommodate the size of trucks and other equipment which will be necessary in the drilling of your well. Since we have excluded all grazing from this area for at least through 1973, it will be necessary for your crews to be on the alert to make sure that these gates are closed at all times. It might be more feasible if you could install a cattle guard at each point where the road crosses these fences.

July 20, 1973

Page No. 2

As you indicated in your plans, you are not to disturb any more of the land than is necessary, and you are advised that your trucks and other equipment must stay on the existing road and the extension of this road which you build in to your drill site. We will not permit any cross country travel in this area. We will also expect you to properly restore the site of this well if it should be a dry hole, and if it is a producing well, then no more area will be disturbed than is absolutely necessary for the installation of your production facilities.

It would be appreciated if you could advise this office as to the date on which drilling operations will commence.

Yours very truly,

DONALD G. PRINCE
ASSISTANT DIRECTOR

DGP:lw

cc: Utah Division of Oil & Gas Conservation
1538 West North Temple
Salt Lake City, Utah 84116

CALVIN L. RAMPTON
Governor



OIL & GAS CONSERVATION BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

September 12, 1973

GUY N. CARDON
Chairman

CHARLES R. HENDERSON
ROBERT R. NORMAN
EVART J. JENSEN
JAMES P. COWLEY

The Anschutz Corporation
1110 Denver Club Building
Denver, Colorado 80202

Re: Well No's:
State 428 - #1
Sec. 5, T. 16 S, R. 22 E,
Federal 051 - #1
Sec. 22, T. 16 S, R. 23 E,
Federal 915 - #1
Sec. 13, T. 17 S, R. 22 E,
Grand County, Utah

Gentlemen;

Our records indicate that you have not filed a "Monthly Report of Operations" for the months of July and August, 1973, on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey 9-331), "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information.

Your cooperation relative to the above will be greatly appreciated,

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

Scherie DeRose
SCHEREE DeROSE
EXECUTIVE SECRETARY

9-17-73

*Mo DeRose, First well started in September.
We'll keep you posted.*

Jack Haley

SEP 15 1973



1110 DENVER CLUB BUILDING
518 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-573-5665

September 18, 1973

AIR MAIL

Mr. Cleon B. Feight
Utah Oil & Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah 84116

Re: Anschutz #1 State 428
SW SE Section 5-16S-22E
Grand County, Utah

Dear Mr. Feight:

The captioned well was spudded 9-14-73 and casing has been set as follows:

<u>Casing Size</u>	<u>Depth Set</u>	<u>Cement</u>
13 3/8"	93' KB	120 sx; good returns
9 5/8"	949' KB	550 sx; good returns

We shall drill under surface casing at 5 PM today with air; we expect to reach total depth about October 15.

Yours very truly,

THE ANSCHUTZ CORPORATION

Robert M. Wakefield
Geologist

RMW:kcw



1110 DENVER CLUB BUILDING
518 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-573-5665

October 16, 1973

AIR MAIL

Mr. Cleon B. Feight
Utah Oil & Gas Conservation Commission
1588 West Temple North
Salt Lake City, Utah 84116

Re: Anschutz #1 State 428
SW SE Sec. 5-16S-22E
Grand County, Utah

Dear Mr. Feight:

This is to advise for the record that 7" casing has been set at 6100' with 200 sacks cement, approximately 200' below the top of the Mancos shale. As of this morning we are drilling below 6400' with air.

This well was permitted as a 9000' Entrada test. We now propose to drill to 9900' into the upper part of the Morrison formation. Please advise if it will be necessary to submit a revised permit application or sundry notice.

Yours very truly,

THE ANSCHUTZ CORPORATION

Robert M. Wakefield
Geologist

RMW:kcw

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE **OCT 21 1973**

BY

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b₁	= Approximate Radius of Investigation (Net Pay Zone h ₁)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h₁	= Net Pay Thickness	Feet
K	= Permeability	md
K₁	= Permeability (From Net Pay Zone h ₁)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF₁	= Maximum Indicated Flow Rate	MCF/D
OF₂	= Minimum Indicated Flow Rate	MCF/D
OF₃	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF₄	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{ot}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,
Fresh Water Corrected to 100° F.

Legal Location
Sec. - Twp. - Rng.

5 - 16S - 22E

Lease Name

Well No.

Test No.

Field Area
Meo. From Tester Valve

WILDCAT

County

GRAND

State

UTAH

Lease Owner/Company Name

FLUID SAMPLE DATA				Date 10-21-73		Ticket Number 611912	
Sampler Pressure 1900 P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District VERNAL	
Recovery: Cu. Ft. Gas 11.399				Tester CANTRELL		Witness JOHNSON	
cc. Oil 9 C C				Drilling Contractor PEASE DRILLING COMPANY NM S			
cc. Water 1 C C				EQUIPMENT & HOLE DATA			
cc. Mud 10 C C				Formation Tested Mancos Bluegate			
Tot. Liquid cc. 63 ° API @ 60 ° F.				Elevation 7325' Ft.			
Gravity 63 ° API @ 60 ° F.				Net Productive Interval 30' Ft.			
Gas/Oil Ratio 3 qt. sampler - sample taken under closed in pressure				All Depths Measured From Kelly Bushing			
RESISTIVITY CHLORIDE CONTENT				Total Depth 7670' Ft.			
Recovery Water @ ° F. ppm				Main Hole/Casing Size 6 1/8"			
Recovery Mud @ ° F.				Drill Collar Length 444.83' I.D. 2 1/2"			
Recovery Mud Filtrate @ ° F. ppm				Drill Pipe Length 7119' I.D. 2.764"			
Mud Pit Sample 2.80 @ 80 ° F.				Packer Depth(s) 7587' - 7592' Ft.			
Mud Pit Sample Filtrate 2.25 @ 100 ° F. 350 ppm				Depth Tester Valve 7567' Ft.			
Mud Weight 9.2 vis 9 ? cp							
Cushion		TYPE NONE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
Recovered 300'		Feet of	condensate	NONE	1" x 1 1/2"	.62"	
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Tool opened for a 5 minute first flow. Closed tool for a 45 minute first closed in pressure. Tool reopened for a 92 minute second flow. Took a 119 minute second closed in pressure. SEE PRODUCTION TEST DATA SHEET FOR REMAINDER OF THE REMARKS...							
Q = QUESTIONABLE.							
TEMPERATURE	Gauge No. 205	Gauge No. 192	Gauge No.	TIME			
	Depth: 7568' Ft.	Depth: 7664' Ft.	Depth: Ft.				
Est. ° F.	12 Hour Clock	24 Hour Clock	Hour Clock	Tool A.M.			
	Blanked Off NO	Blanked Off YES	Blanked Off	Opened 1:00 P.M.			
Actual 155 ° F.	Pressures	Pressures	Pressures	Tool A.M.			
	Field Office	Field Office	Field Office	Closed 5:21 P.M.			
Initial Hydrostatic	3709	3729	3767	3767	Field	Office	Reported Minutes
First Period Flow Initial	440	604Q	512	761			Computed Minutes
Final	385	440	512	523			
Closed in	3542	3554	3573	3576			
Second Period Flow Initial	440	512	512	520			
Final	330	327	351	365			
Closed in	3055	3075	3065	3087			
Third Period Flow Initial							
Final							
Closed in							
Final Hydrostatic	3709	3729	3767	3767			

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 011722
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

[illegible]

Gauge No. 205			Depth 7568'			Clock No. 7127			12 hour		Ticket No. 611912				
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	604Q	.000		440	.000	512	.000		327					
1	.0044	545	.0213		3514	.1175	451*	.0489		2785**					
2	.0088	516	.0426		3524	.2212	429	.1048		2819					
3	.0132	473	.0639		3529	.3249	429	.1607		2850					
4	.0176	447	.0852		3534	.4286	373	.2166		2878					
5	.0220	440	.1065		3536	.5323	348	.2725		2901					
6			.1278		3539	.6360	327	.3284		2924					
7			.1491		3542			.3843		2943					
8			.1704		3545			.4402		2963					
9			.1917		3546			.4961		2981					
10			.2130		3547			.5520		2997					
11			.2343		3549			.6079		3014					
12			.2556		3552			.6638		3029					
13			.2769		3553			.7197		3044					
14			.2982		3554			.7756		3060					
15			.3200		3554			.8320		3075					

Gauge No. 192			Depth 7664'			Clock No. 9989			hour 24						
0	.000	761	.000		523	.000	520	.000		365					
1	.0032	691	.0101		3537	.0565	501*	.0232		2801**					
2	.0064	673	.0202		3546	.1064	473	.0497		2836					
3	.0096	653	.0303		3550	.1563	470	.0762		2864					
4	.0128	548	.0404		3555	.2062	415	.1027		2890					
5	.0160	523	.0505		3557	.2561	387	.1292		2916					
6			.0606		3560	.3060	365	.1557		2936					
7			.0707		3562			.1822		2956					
8			.0808		3564			.2087		2975					
9			.0909		3566			.2352		2993					
10			.1010		3568			.2617		3011					
11			.1111		3569			.2882		3027					
12			.1212		3571			.3147		3041					
13			.1313		3573			.3412		3056					
14			.1414		3575			.3677		3073					
15			.1520		3576			.3940		3087					
Reading Interval 1			3			15			8			Minutes			

REMARKS: * INTERVAL = 17 MINUTES. ** INTERVAL = 7 MINUTES.

Q = QUESTIONABLE.



	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	4 3/4"	2 1/2"	.98'	
Water Cushion Valve				
Drill Pipe	3 1/2"	2.764"	7119'	
Drill Collars	4 3/4"	2 1/2"	444.83'	
Handling Sub & Choke Assembly	3 7/8"	.87"	6.94'	
Dual CIP Valve	3 7/8"		7.95'	
Dual CIP Sampler	3 7/8"	.62"	6.27'	7567'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	3 7/8"	3"	5.58'	7568'
Hydraulic Jar	3 7/8"	1.25"	6.38'	
VR Safety Joint	3 7/8"	.75"	4.25'	
Pressure Equalizing Crossover				
Packer Assembly	5 1/4"	.75"	4.55'	7587'
Distributor				
Packer Assembly	5 1/4"	.75"	5.60'	7592'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars	4 3/4"	2 1/2"	29.33'	
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	4 5/8"	3 5/8"	43.83'	
Blanked-Off B.T. Running Case	4 5/8"	3 5/8"	5'	7664'

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b₁	= Approximate Radius of Investigation (Net Pay Zone h ₁)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h₁	= Net Pay Thickness	Feet
K	= Permeability	md
K₁	= Permeability (From Net Pay Zone h ₁)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF₁	= Maximum Indicated Flow Rate	MCF/D
OF₂	= Minimum Indicated Flow Rate	MCF/D
OF₃	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF₄	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_o	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,
Fresh Water Corrected to 100° F.

PRESSURE



TIME

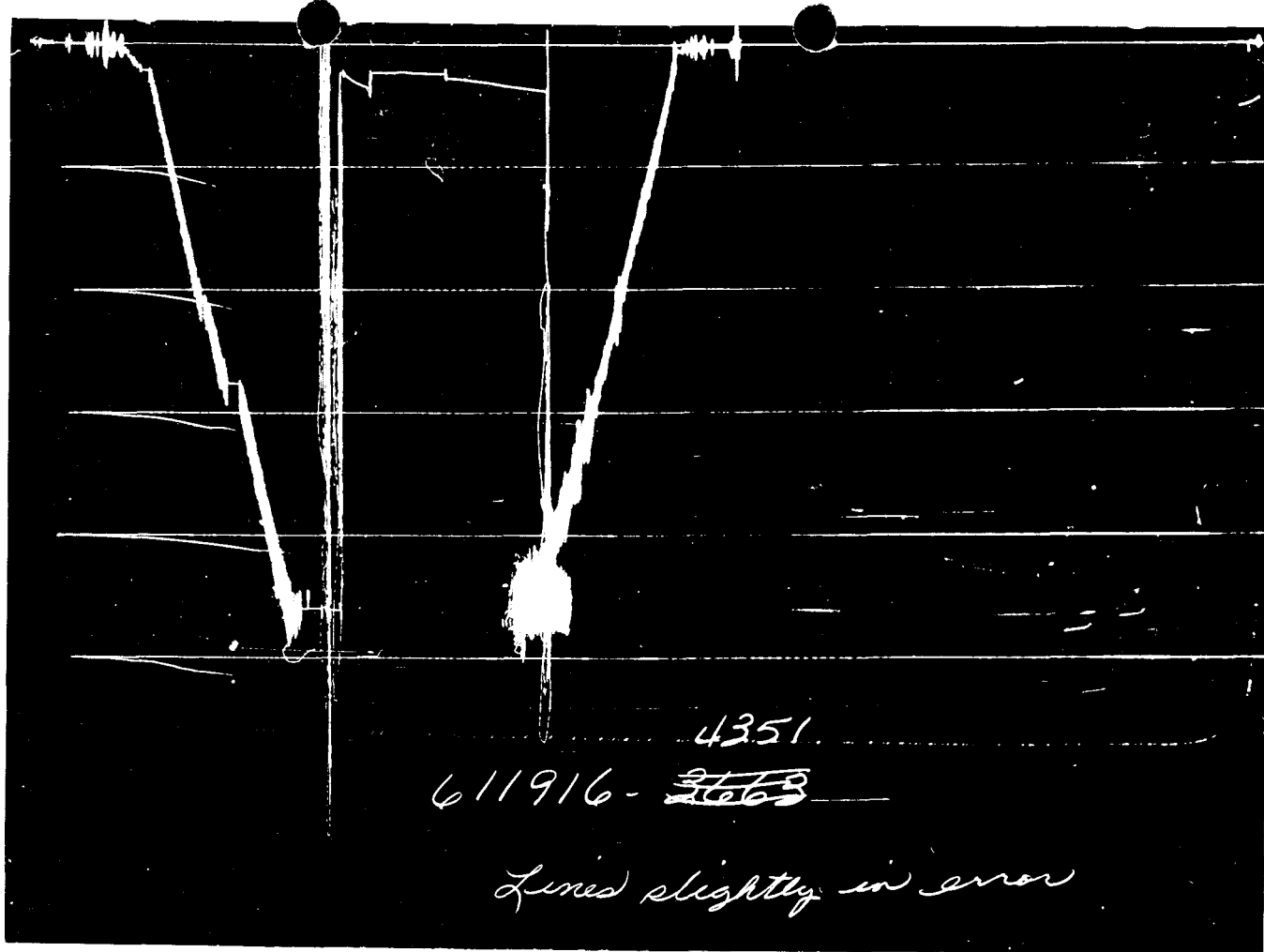


611912-205

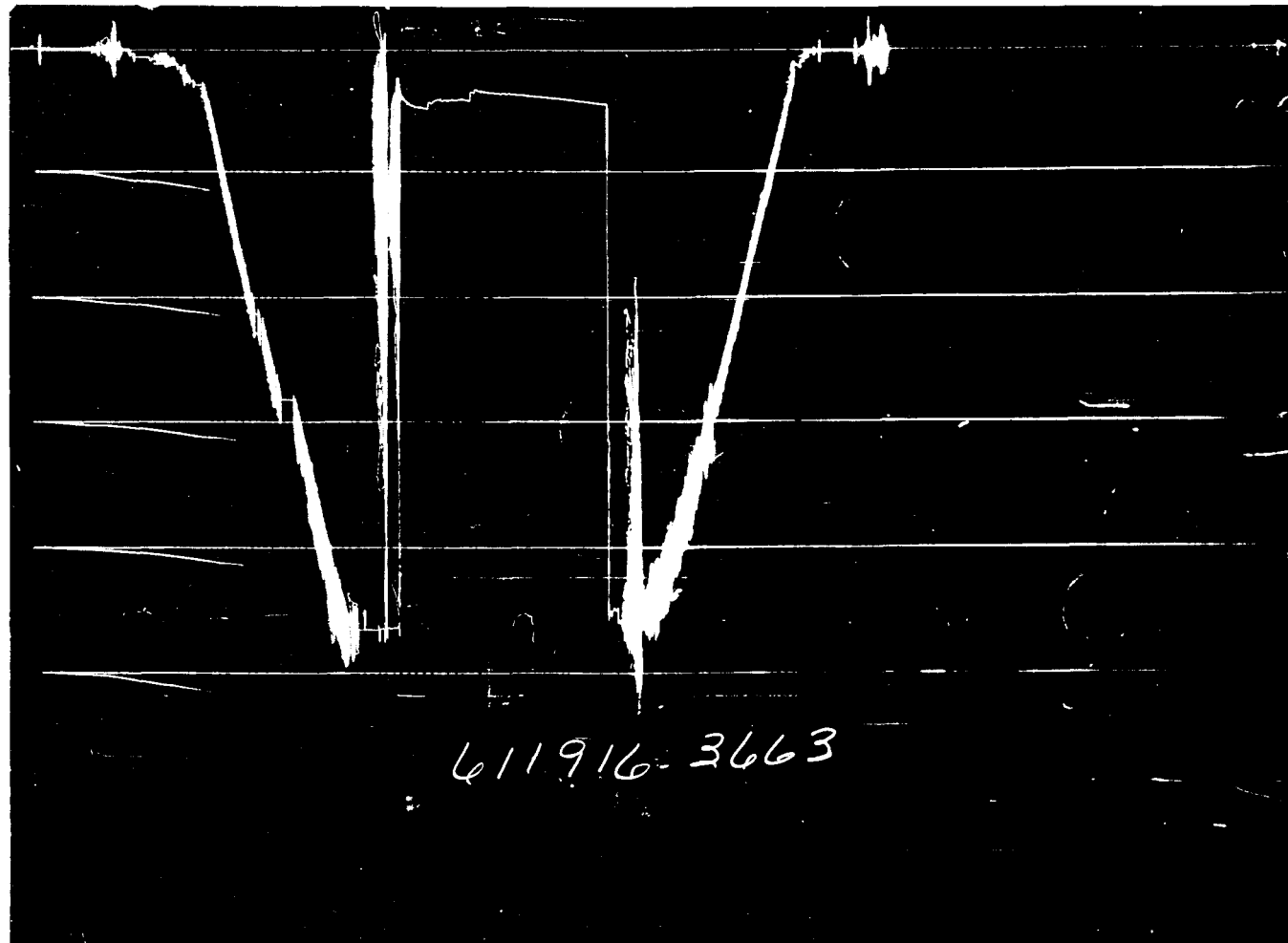
611912-192

Each Horizontal Line Equal to 1000 p.s.i.

PRESSURE



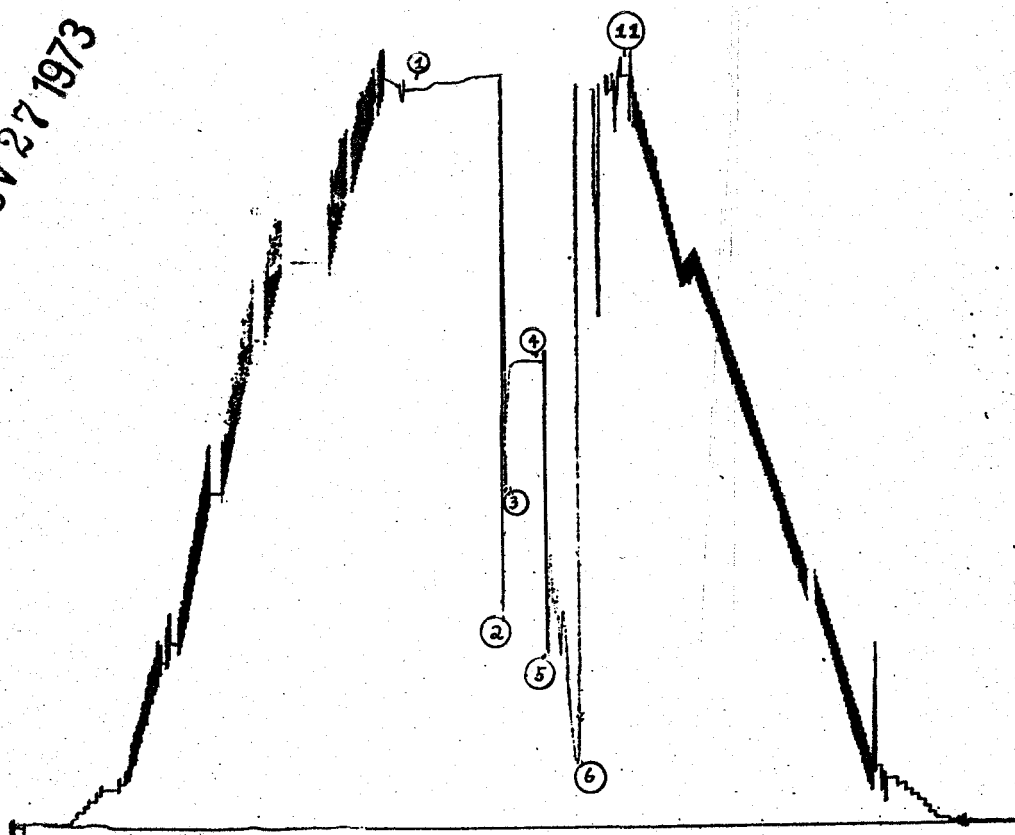
TIME



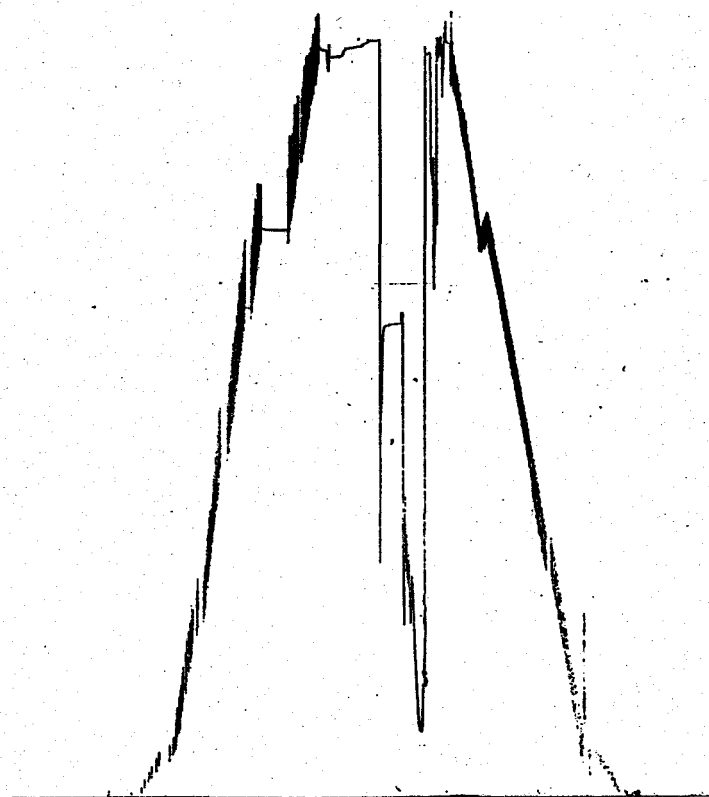
Each Horizontal Line Equal to 1000 p.s.i.

Anschutz Corp., Anschutz #1 - State #428
Sec. 5, T16S-R22E, Grand County, Utah
Test #4 Job No. 61-422

NOV 27 1973



Outside Chart #5161, Depth:7616', 18 hr.clock



Outside Chart #5104, Depth:7616', 36 hr.clock



LYNES, INC.
P. O. BOX 12486 • 7042 LONG DRIVE
HOUSTON, TEXAS 77017
A SUBSIDIARY OF BAKER OIL TOOLS, INC.

DISTRIBUTION LIST - ANSCHUTZ CORPORATION - WELL NO. 428 #1

- (3) ANSCHUTZ CORPORATION
1110 Denver Club Building
Denver, Colorado 80202
- (2) MONO POWER COMPANY
Attn: Mr. B. J. Perry
P. O. Box 800
Rose Mead, California 91770
- (2) PACIFIC TRANSMISSION SUPPLY COMPANY
Attn: Mr. John Wroble
245 Market Street
San Francisco, California 94105
- (2) PACIFIC TRANSMISSION SUPPLY COMPANY
64 East Main Street
Vernal, Utah 84078
- (2) CHORNEY OIL COMPANY
Suite 401 - Lincoln Tower Building
Denver, Colorado 80203
- (3) UTAH OIL & GAS CONSERVATION DIVISION
1588 West North Temple
Salt Lake City, Utah 84116

COMPANY Anschutz Corporation
WELL NAME & NO. Anschutz #1 - State #428
LOCATION SW SE Sec. 5, T16S-R22E, Grand County, Utah
D.S.T. NO. 4 INTERVAL TESTED 7610'-7706' FORMATION Emery

[illegible]

SPECIAL PRESSURE DATA

Field Wildcat Formation Emery
 Location SW SE Sec. 5, T16S-R22E
 County Grand State Utah
 Division Rocky Mtn. District Denver
 Address 1110 Denver Club Bldg.
Denver, Colorado 80202
 No. Reports To: (14) See attached distribution List.

Job No. 61-DST-422 Test No. 1 Customer Test No. 4
 Net Feet of Pay 64' Elevation KB 7325
 Test Interval 7610' To 7706' T.D. 9875'
 Type Test Straddle, Inflatable packers
 Customer's Representative Cliff Boehn
 Lynes' Representative Sam Jones

TESTING TIME

Started in hole at 4:00 AM (11/18/73)
 Initial flow 3 Mins. Initial shut-in 29 Mins.
 Second flow 23 Mins. Second shut-in -- Mins.
 Third flow -- Mins. Third shut-in -- Mins.

TEST DESCRIPTION	TIME
Opened tool for Initial First Flow	8:38 AM
Closed tool for First Shut-In	8:41 AM
Re-opened tool for Second Flow	9:10 AM
Closed tool for Second Shut-In	
Opened for Third Flow	
Closed for Third Shut-In	

Unset 9:33 AM Packers failed.

REMARKS

MISRUN

Packers held for 55 min. and failed during 2nd. flow period.
 1st. Flow: Opened with no blow and remained dead for flow period.
 2nd. Flow: Opened with good blow. Increased to strong blow (12" under water in 2 minutes).
 The following pressures were read on floor manifold with flow only through bubble hose: 5 minutes - 3 psi
 10 " - 10 "
 20 " - 20 "
 23 " - 22 "
 It is believed that the recovered mud entered the tool after the test was run and occurred when tool was open twice before pulling tools.

MUD AND HOLE DATA

Mud Type <u>Chem-Gel</u>	Top Packer OD <u>5"</u>
Weight <u>9.2 #/gal.</u>	Bot Packer OD <u>5"</u>
Viscosity <u>80 sec.</u>	Bot Hole Choke Size <u>1"</u>
Water Loss <u>5.6 cc</u>	Bot Hole Temp. <u>168 F</u>
Filter Cake <u>2/32"</u>	Caliper Hole Size <u>7"</u>
Hole Size <u>6 1/8"</u>	Rat Hole Size <u>--</u>
Casing Size <u>7"-23# N40</u>	Set At <u>6100'</u>
Drill Pipe Size <u>3 1/2" IF</u>	Weight <u>14.#</u> I.D. <u>3.34"</u>
Drill Collar Size <u>4 3/4"</u>	Feet Run <u>414.</u> I.D. <u>2.00"</u>
Cushion <u>None</u>	Volume <u>--</u> Feet <u>--</u>

PIPE RECOVERY SAMPLES

SAMPLE	RESISTIVITY	CHLORIDE EQUIVALENTS
Top	.1 at 62°F.	7500ppm
Mud with no gas		
Middle	1.8 at 62°F.	3500ppm
Gas-cut mud		
Bottom	1.8 at 62°F.	3500ppm
Heavily gas-cut mud.		

RECOVERY Test was not reversed out

576	Ft. of Drilling mud. (Gas cut on bottom)
	Ft. of
	Ft. of
	Ft. of
	Ft. of
Pit Res. .9 @ 57°F.	Test Res. See above
Pit Chlorides 8000 ppm	Test Chlorides " "

Office Corrected PRESSURE READINGS

DESCRIPTION	Inside #		Outside # 5161		Outside #5104	
	Cap.	Hrs.	Cap. 4900psi	Hrs. 18	Cap. 5000psi	Hrs. 36
	Depth		Depth 7616		Depth 7616	
1. Initial Hydrostatic		p.s.i.	3674	p.s.i.	3676	p.s.i.
2. Initial First Flow		p.s.i.	1165	p.s.i.	1155	p.s.i.
3. Final First Flow		p.s.i.	1667	p.s.i.	1895	p.s.i.
4. First Shut-In		p.s.i.	2319	p.s.i.	2337	p.s.i.
5. Second Initial Flow		p.s.i.	849	p.s.i.	846	p.s.i.
6. Second Final Flow		p.s.i.	310	p.s.i.	320	p.s.i.
7. Second Shut-In		p.s.i.		p.s.i.		p.s.i.
8. Third Initial Flow		p.s.i.		p.s.i.		p.s.i.
9. Third Final Flow		p.s.i.		p.s.i.		p.s.i.
10. Third Shut-In		p.s.i.		p.s.i.		p.s.i.
11. Final Hydrostatic		p.s.i.	3669	p.s.i.	3676	p.s.i.
Clock No.			8153		10088	

COMPANY

Anschutz Corp. #1- State #428

LEASE AND WELL NO.

TEST NO.

DEPTH

7610' - 7706'
 November 18, 1973 (61-422)
 DATE OF TEST

NOMENCLATURE (Definition of Symbols)

Q	= average production rate during test, bbls./day
Q_k	= measured gas production rate during test, MCF/day
k	= permeability, md
h	= net pay thickness, ft. (when unknown, test interval is chosen)
μ	= fluid viscosity, centipoise
Z	= compressibility factor
T_f	= reservoir temperature, ° Rankine
m	= slope of final SIP buildup plot, psig/cycle (psig ² /cycle for gas)
b	= approximate radius of investigation, feet
r_w	= wellbore radius, feet
t_o	= total flowing time, minutes
P_o	= Extrapolated maximum reservoir pressure, psig
P_f	= final flowing pressure, psig
$P.I.$	= productivity index, bbls./day/psi
$P.I._t$	= theoretical productivity index with damage removed, bbl./day/psi
$D.R.$	= damage ratio
$E.D.R.$	= estimated damage ratio
AOF	= absolute open flow potential, MCF/D
AOF_t	= theoretical absolute open flow if damage were removed
Z	= subsea depth
W	= water gradient based on salinity
H_w	= potentiometric surface

INTERPRETATION CALCULATIONS (OIL/WATER)	
AVERAGE PRODUCTION RATE DURING TEST $Q = \frac{1440 (\text{drill collar capacity} \times \text{recovery} + \text{drill pipe capac.} \times \text{recovery})}{\text{initial flow time} + \text{final flow time}}$ $= 1440 \left[\frac{(\quad)(\quad)}{(\quad) + (\quad)} \right]$ $= 1440 (0.0145 \text{ or } 0.0073) \left\{ \begin{array}{l} \text{ } \end{array} \right\}$ $= \text{ } \text{ bbls./day}$	
FLUID PROPERTIES Estimated Bottom Hole Temperature ° API Gravity @ 60° F. ° Specific Gravity @ 60° F. ° Est. Viscosity cp Mud Expansion = $\frac{\text{ } - \text{ }}{\text{ } - \text{ }}$ ft. (Drill Collar Conversion Is Considered)	
TRANSMISSIBILITY $\frac{kh}{\mu} = \frac{162.6Q}{m} = \frac{162.6(\quad)}{(\quad)} = \text{ } \text{ md.-ft./cp}$	
IN SITU CAPACITY $kh = \text{ } \left\{ \begin{array}{l} \text{ } \end{array} \right\} \text{ } = \text{ } \text{ md.-ft.}$	
AVERAGE EFFECTIVE PERMEABILITY Estimated Pay Thickness Ft. Actual Pay Thickness Ft. $k = \frac{\text{ } - \text{ }}{\text{ } - \text{ }} = \text{ } \text{ md.}$	
PRODUCTIVITY INDEX $PI = \frac{Q}{P_o - P_f} = \frac{(\quad)}{(\quad) - (\quad)} = \text{ } \text{ bbl./day-psi}$	
DAMAGE RATIO $D.R. = \frac{0.183 (P_o - P_f)}{m} = 0.183 \left[\frac{(\quad) - (\quad)}{(\quad)} \right] = \text{ } \text{ }$	
PRODUCTIVITY INDEX WITH DAMAGE REMOVED $P.I._t = P.I. \times D.R. = (\quad) (\quad) = \text{ } \text{ bbl./day-psi}$	
APPROXIMATE RADIUS OF INVESTIGATION $b = \sqrt{kt_o} = \sqrt{(\quad)(\quad)} = \text{ } \text{ ft.}$	
Drawdown Factor = $\frac{I.S.I.P. - F.S.I.P.}{I.S.I.P.} \times 100 = \frac{(\quad) - (\quad)}{(\quad)} \times 100 = \text{ } \%$ (4% to 5% is considered serious or substantial)	
Potentiometric Surface = $H_w = Z + \frac{P_o}{W}$ $H_w = \text{ } + \frac{(\quad)}{(\quad)} = \text{ } \text{ ft.}$	

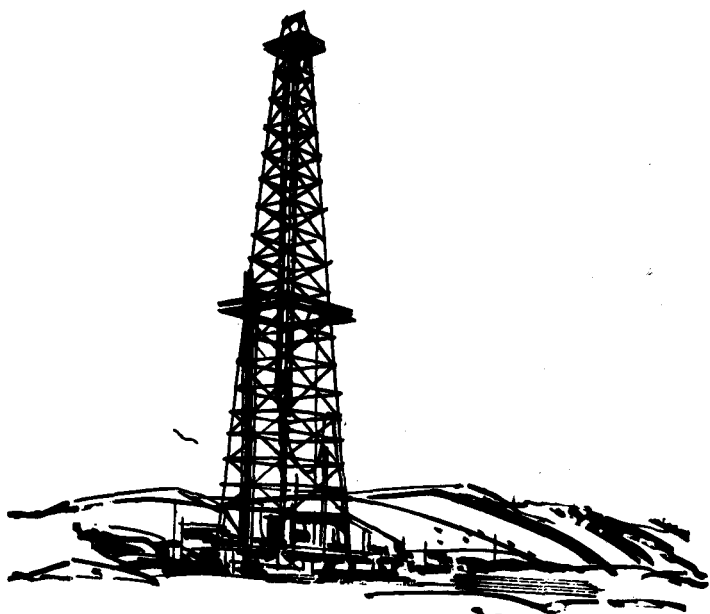
INTERPRETATION CALCULATIONS (GAS)	
ESTIMATED GAS PROPERTIES Estimated Bottom Hole Temperature ° Gravity @ 60° F. ° Viscosity (Res.) cp. Compressibility Factor (Z) °	
TRANSMISSIBILITY Measured D.S.T. Gas Rate = $\text{ } \text{ mcf/d.}$ $\frac{kh}{\mu} = \frac{1637 Q_k Z T_f}{m} = \frac{1637 (\quad)(\quad)(\quad)}{(\quad)} = \text{ } \text{ md.-ft./cp.}$	
IN SITU CAPACITY $kh = \text{ } \left\{ \begin{array}{l} \text{ } \end{array} \right\} \text{ } = \text{ } \text{ md.-ft.}$	
AVERAGE EFFECTIVE PERMEABILITY Estimated Pay Thickness Ft. Actual Pay Thickness Ft. $k = \frac{\text{ } - \text{ }}{\text{ } - \text{ }} = \text{ } \text{ md.}$	
APPROXIMATE RADIUS OF INVESTIGATION $b = 0.02 \sqrt{kt_o P_o} = 0.02 \sqrt{(\quad)(\quad)(\quad)} = \text{ } \text{ ft.}$	
ACTUAL CAPACITY $kh = \frac{3270 Q_k \mu Z T_f \log(0.472 r_o)}{P_o^2 - P_f^2} = \frac{3270 (\quad)(\quad)(\quad)(\quad) \log(\frac{\quad}{\quad})}{(\quad)^2 - (\quad)^2} = \text{ } \text{ md.-ft.}$	
DAMAGE RATIO E.D.R. = $\frac{(P_o^2 - P_f^2)}{m (\log T_o + 2.65)}$ $D.R. = \frac{\text{In Situ Capacity}}{\text{Actual Capacity}} = \frac{(\quad)}{(\quad)} = \text{ } \text{ }$ E.D.R. = $\frac{(\quad)}{(\quad)}$	
ESTIMATED RANGE OF AOF POTENTIAL Max. AOF = $\frac{Q_k P_o}{P_o^2 - P_f^2} = \frac{(\quad)(\quad)}{[(\quad) - (\quad)](\quad)} = \text{ } \text{ MCF/D}$ Min. AOF = $\frac{Q_k P_o}{\sqrt{P_o^2 - P_f^2}} = \frac{(\quad)(\quad)}{\sqrt{[(\quad) - (\quad)]}} = \text{ } \text{ MCF/D}$	
ESTIMATED RANGE OF AOF POTENTIAL, DAMAGE REMOVED Max. AOF _t = (Max. AOF) (D.R.) = $(\quad)(\quad) = \text{ } \text{ MCF/D}$ Min. AOF _t = (Min. AOF) (D.R.) = $(\quad)(\quad) = \text{ } \text{ MCF/D}$	
Drawdown Factor = $\frac{ISIP - ESIP}{ISIP} \times 100 = \frac{(\quad) - (\quad)}{(\quad)} \times 100 = \text{ } \%$ (4% to 5% is considered serious or substantial)	
Potentiometric Surface = $H_w = Z + \frac{P_o}{W}$ $H_w = \text{ } + \frac{(\quad)}{(\quad)} = \text{ } \text{ ft.}$	



LYNES

BRIGHT NAME IN THE OIL PATCH

Inflatable Sealing Element Packers

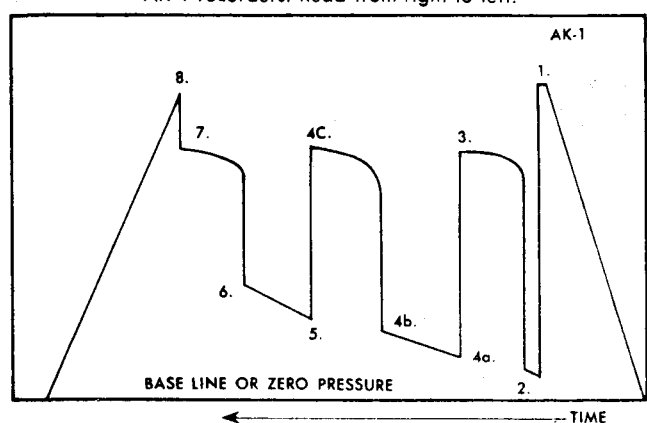


**Formation Testing
Service Report**

GUIDE TO INTERPRETATION AND IDENTIFICATION OF LYNES DRILL STEM TEST PRESSURE CHARTS

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

AK-1 recorders. Read from right to left.

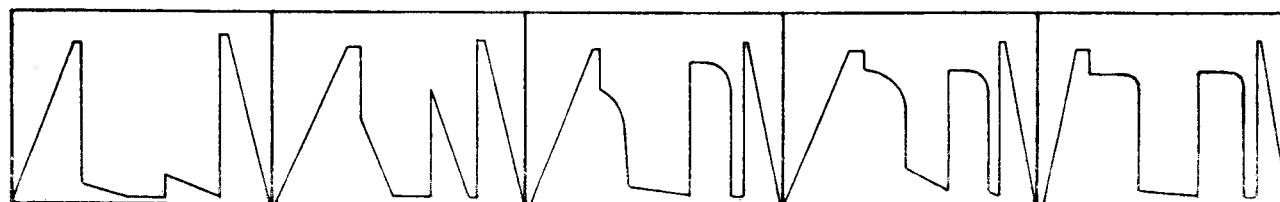


1. INITIAL HYDROSTATIC MUD PRESSURE
2. PRE-FLOW
3. INITIAL SHUT-IN
- 4a. 2nd INITIAL FLOW
- 4b. 2nd FINAL FLOW
- 4c. 2nd SHUT-IN
5. 3rd INITIAL FLOW
6. FINAL FLOW
7. FINAL SHUT-IN
8. FINAL HYDROSTATIC MUD PRESSURE

K-K-3 recorders. Read from left to right.

N.B. When only two shut-in and flow periods are run, 4a, 4b and 4c are omitted.

Typical charts for visual field analysis ranging from very low to high permeability.



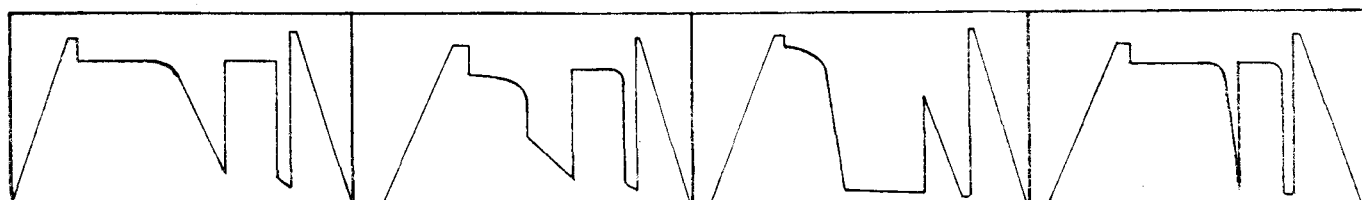
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again usually mud recovered.

Slightly higher permeability. Small recovery, less than 200' ft).

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.

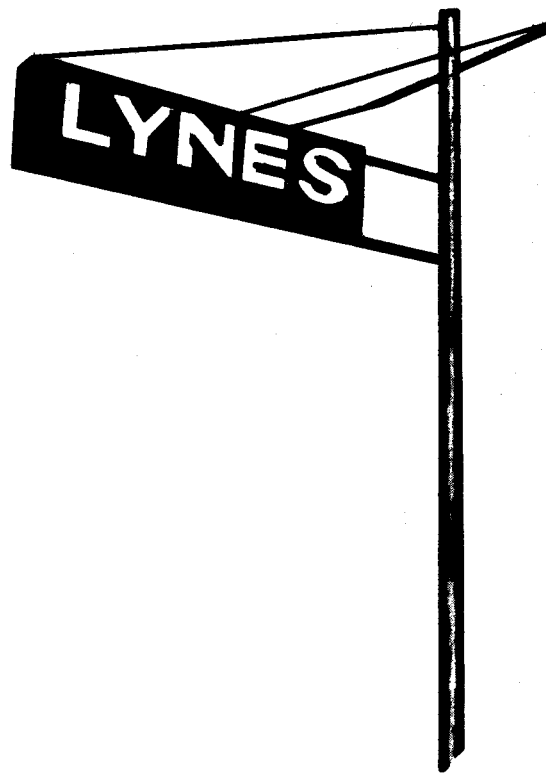


Excellent permeability where final flow final shut-in pressure.

High permeability where ISIP and FSIP are within 10 psi.

Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

Tight hole chamber tester. Permeability very difficult to interpret unless the recovery is less than chamber length. Flow pressure builds up rapidly if recovery is large, similar to a shut-in.



HOME OFFICE: LYNES, INC. P.O. BOX 12486 (713) 643-4393 HOUSTON, TEXAS 77017

FLUID SAMPLE DATA				Date 11-6-73		Ticket Number 611916	
Sampler Pressure 35 P.S.I.G. at Surface Recovery: Cu. Ft. Gas none cc. Oil none cc. Water none cc. Mud 2700 Tot. Liquid cc. 2700				Kind of Job OPEN HOLE		Halliburton District VERNAL	
Gravity _____ ° API @ _____ ° F.				Tester MR. CANTRELL		Witness MR. JOHNSON	
Gas/Oil Ratio _____ cu. ft./bbl.				Drilling Contractor PEASE DRILLING COMPANY IC			
3 qt. sampler-sample taken under closed in pressure Recovery Water _____ @ _____ ° F. _____ ppm Recovery Mud 2.8 @ 80 ° F. _____ ppm Recovery Mud Filtrate 2.3 @ 180 ° F. 950 ppm Mud Pit Sample 3.3 @ 62 ° F. _____ ppm Mud Pit Sample Filtrate 2.8 @ 180 ° F. 600 ppm Mud Weight 9.2 vis 20 cp				EQUIPMENT & HOLE DATA			
Formation Tested Dakota				Elevation 7325' Ft.			
Net Productive Interval Unknown Ft.				All Depths Measured From Kelly Bushing			
Total Depth 9720' Ft.				Main Hole/Casing Size 6 1/8"			
Drill Collar Length 356'				I.D. 2 1/2"			
Drill Pipe Length 9192'				I.D. 2.764"			
Packer Depth(s) 9568' - 9572' Ft.				Depth Tester Valve 9546' Ft.			
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
		-		-	1"	.625"	
Recovered 375		Feet of Drilling mud					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Slid tool 20' to bottom - lost mud.							
SEE PRODUCTION TEST DATA SHEET.							
Anchor perforations plugging on second flow.							
TEMPERATURE		Gauge No. 4351	Gauge No. 3663	Gauge No.	TIME		
Depth: 9547' Ft.		Depth: 9716' Ft.	Depth:	Hour Clock		Tool A.M.	
Est. ° F.		Blanked Off NO	Blanked Off YES	Blanked Off		Opened 5:45 XXX	
Actual 180° F.		Pressures		Pressures		Opened A.M.	
		Pressures		Pressures		Bypass 9:50 XXX	
		Field	Office	Field	Office	Reported	Computed
Initial Hydrostatic		4558	4603	4619	4632	Minutes	Minutes
First Period	Flow Initial	187	232	253	335		
	Flow Final	187	219	253	331	5	
	Closed in	353	347	484	482	30	
Second Period	Flow Initial	208	227	421	427		
	Flow Final	228	232	400	322	90	
	Closed in	353	371	442	444	120	
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		4558	4551	4557	4588		

 Legal Location
 Sec. - Twp. - Rng.

 Lease Name
 5 - 16S - 22E

Well No.

Test No.

Field Area

WILDCAT

County

GRAND

State

UTAH

STATE 428

1

2

9572' - 9720'

Tested Interval

 THE ANSCHUTZ CORPORATION, INCORPORATED
 Lease Owner/Company Name

Casing perms. _____ Bottom choke .625" Surf. temp _____ °F Ticket No. 611916
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	4 3/4"	2 1/2"	.98'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	3 1/2"	2.764"	9192'	
Drill Collars	4 3/4"	2 1/2"	356'	
Handling Sub & Choke Assembly				
Dual CIP Valve	3 7/8"	.87"	6.87'	
Dual CIP Sampler CHAMBER	3 7/8"		7.92'	
Hydro-Spring Tester	3 7/8"	.625"	6.29'	9546'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	3 7/8"	3"	5.58'	9547'
Hydraulic Jar	3 7/8"	1.25"	6.35'	
VR Safety Joint	3 7/8"	.75"	4.25'	
Pressure Equalizing Crossover				
Packer Assembly	5 1/4"	.75"	4.38'	9568'
Distributor				
Packer Assembly	5 1/4"	.75"	5.58'	9572'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars	4 3/4"	2 1/2"	118'	
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	4 5/8"	3 5/8"	25'	
Blanked-Off B.T. Running Case	4 5/8"	3 5/8"	5'	9716'
Total Depth				9720'



1110 DENVER CLUB BUILDING
518 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-573-5665

April 1, 1974

State of Utah
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

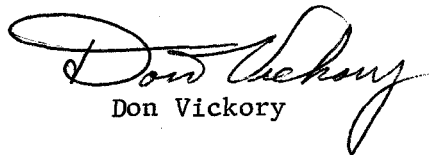
RE: Well No. 1 State 428-1
Sec. 5-T16S-R22E
Grand County, Utah

Gentlemen:

Please refer to your letter of March 29, 1974, in which you requested that we submit the "Well Completion or Recompletion Report and Log" for the captioned well.

We are presently in the process of testing this well. When testing procedures are completed, we will immediately forward the completion report. ✓

Yours very truly,


Don Vickory

DV/sl

July 23, 1974

The Anschutz Corporation
1110 Denver Club Building
Denver, Colorado 80202

Re: Well No's:
Anschutz State 913-1A
Sec. 9, T. 16 S, R. 22 E,
State 428-#2
Sec. 6, T. 16 S, R. 22 E,
State 428-#1
Sec. 5, T. 16 S, R. 22 E,
Grand County, Utah

Gentlemen:

Our records indicate that you have not filed a "Monthly Report of Operations" for the months of May thru' June, 1974, on the subject wells.

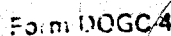
Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b (U.S. Geological Survey 9-331) "Sundry Notices and Reports on Wells" or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE WILCOX
EXECUTIVE SECRETARY



1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

State Lease No. STATE 428 #1
Federal Lease No. _____
Indian Lease No. _____
Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY Grand FIELD/LEASE STATE 428 #1
Meadow Creek Prospect

The following is a correct report of operations and production (including drilling and producing wells) for the month of: September, 1975.

Agent's Address 1110 Denver Club Bldg.
518 17th Street
Denver, Colo. 80202
Phone No. _____

Company The Anschutz Corporation
Signed Beth Zueria
Title Production Clerk

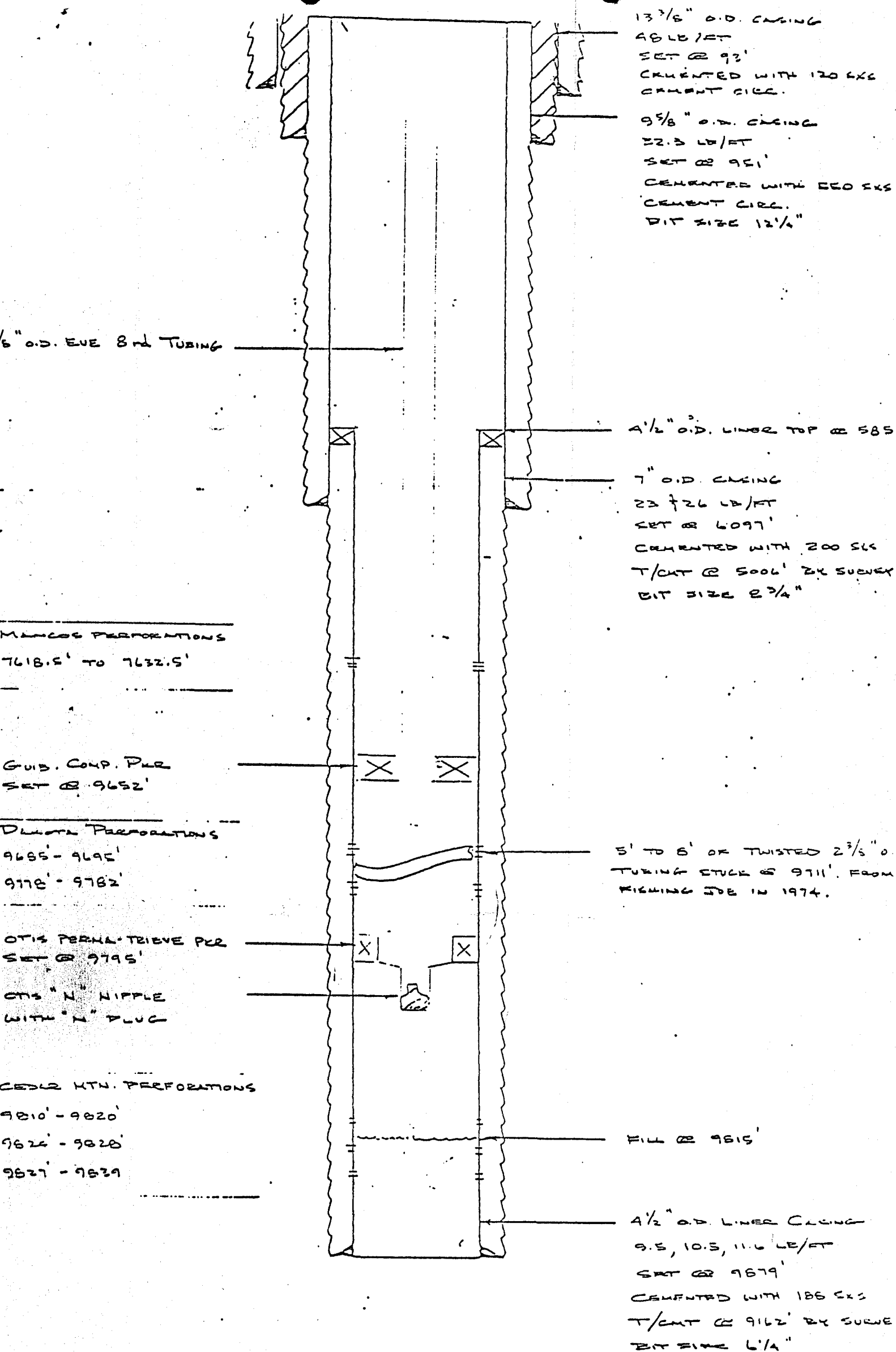
GAS-14CF1

	0
Wanted	0
Off Lease	0

OIL or CONDENSATE: (To be reported in Barrels)

On hand at beginning of month	0
Produced during month	0
Sold during month	0
Unavoidably lost	0
Reason:	
On hand at end of month	0

THE BELLS: This is the full of the present of the present of the following



CURRENT CONDITIONS

STATE 122 WELL NO. 1

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

State Lease No. STATE 428 #1
Federal Lease No. _____
Indian Lease No. _____
Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY Grand FIELD/LEASE STATE 428 #1
Meadow Creek Prospect

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
October 19 76

Agent's Address 1110 Denver Club Bldg.
518 17th Street
Denver, Colo. 80202
Company The Anschutz Corporation
Signed Beth Vienna
Title Production Clerk
Phone No. _____

Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (in thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
							Completion operations Temporarily Suspended.

GAS (MCF)

On hand at beginning of month 0
Produced during month 0
Sold during month 0
Unavoidably lost 0
Reason: _____
On hand at end of month 0

OIL or CONDENSATE: (To be reported in Barrels)

On hand at beginning of month 0
Produced during month 0
Sold during month 0
Unavoidably lost 0
Reason: _____
On hand at end of month 0

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

State Lease No. STATE 428 #1
Federal Lease No. _____
Indian Lease No. _____
Fee & Pat. _____

P

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
November, 1976.

Agent's Address 1110 Denver Club Bldg.
518 17th Street
Denver, Colo. 80202
Phone No. _____

Company The Anschutz Corporation
Signed Beth Vienna
Title Production Clerk

REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)	
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.....	0
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On hand at beginning of month	0
Produced during month	0
Sold during month	0
Unavoidably lost	0
Reason:	
On hand at end of month	0

State Lease No. STATE 428 #1

DEPARTMENT OF NATURAL RESOURCES

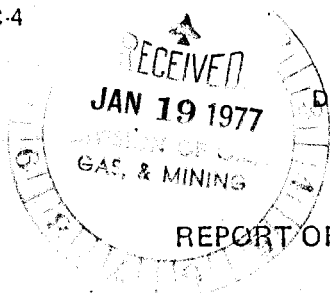
Federal Lease No. _____

DIVISION OF OIL & GAS CONSERVATION

Indian Lease No.

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

Fee & Pat.



REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY Grand FIELD/LEASE STATE 428 #1
Meadow Creek Prospect

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
December 1976

Agent's Address.....1110 Denver Club Bldg.....
518 17th Street.....
Denver, Colo. 80202.....
Phone No.....

Company.....The Anschutz Corporation.....
Signed.....*Beth Sierra*.....
Title.....Production Clerk.....

and No.	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
										Completion operations Temporarily Suspended.

GAS. (MCF)

OIL or CONDENSATE: (To be reported in Barrels)

Wanted	0
Off Lease	0

On hand at beginning of month 0

Produced during month 0

Sold during month 0

Unavoidably lost 0

Reason:

On hand at end of month 0

State Lease No. STATE 428 #1
Federal Lease No. _____
Indian Lease No. _____
Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY Grand FIELD/LEASE STATE 428 #1
Meadow Creek Prospect

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
January, 19 77

Agent's Address.....1110 Denver Club Bldg.
518 17th Street
Denver, Colo. 80202
Phone No.....

Company.....The Anschutz Corporation
Signed.....Beth Chierra
Title.....Production Clerk

and	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
										Completion operations Temporarily Suspended.

GAS. MPFI

	0
Wanted	0
Off Lease	0

OIL or CONDENSATE: (To be reported in Barrels)

On hand at beginning of month 0

Produced during month 0

Sold during month 0

Unavoidably lost 0

Reason:

On hand at end of month 0

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

State Lease No. STATE 428 #1
Federal Lease No. _____
Indian Lease No. _____
Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY Grand FIELD/LEASE STATE 428 #1
Meadow Creek Prospect

The following is a correct report of operations and production (including drilling and producing wells) for the month of: February, 19 77

Agent's Address..... 1110 Denver Club Bldg.
518 17th Street
Denver, Colo. 80202
Phone No.

Company..... The Anschutz Corporation
Signed..... Beth Sierra
Title..... Production Clerk

Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (in thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
							Completion operations Temporarily Suspended.

GAS. M.F.

	0
Mounted	0
Off Lease	0

OIL or CONDENSATE: (To be reported in Barrels)

On hand at beginning of month0.....
 Produced during month0.....
 Sold during month0.....
 Unavoidably lost0.....
 Reason:
 On hand at end of month0.....

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

State Lease No. STATE 428 #1
Federal Lease No. _____
Indian Lease No. _____
Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY Grand FIELD/LEASE STATE 428 #1

Meadow Creek Prospect

The following is a correct report of operations and production (including drilling and producing wells) for the month of:

..... March 1977

Agent's Address.....1110 Denver Club Bldg.
.....518 17th Street
.....Denver, Colo. 80202
Phone No.....
Company.....The Anschutz Corporation
Signed.....Beth Sierra
Title.....Production Clerk

No. and Date	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
										Completion operations Temporarily Suspended.

GAS. (MCF)

0	0
Wanted	0
Off Lease	0

OIL or CONDENSATE: (To be reported in Barrels)

On hand at beginning of month0.....
 Produced during month0.....
 Sold during month0.....
 Unavoidably lost0.....
 Reason:
 On hand at end of month0.....

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

State Lease No. STATE 428 #1
Federal Lease No.
Indian Lease No.
Fee & Pat.

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY Grand FIELD/LEASE STATE 428 #1
Meadow Creek Prospect
The following is a correct report of operations and production (including drilling and producing wells) for the month of:
April, 1977.

Agent's Address 1110 Denver Club Bldg.
518 17th Street
Denver, Colo. 80202
Phone No.
Company The Anschutz Corporation
Signed Ruth Zuercher
Title Production Clerk

No. and Date	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
										Completion operations Temporarily Suspended.

GAS (MCF)
Produced _____ 0
Sold _____ 0
Off Lease _____ 0

OIL or CONDENSATE: (To be reported in Barrels)
On hand at beginning of month _____ 0
Produced during month _____ 0
Sold during month _____ 0
Unavoidably lost _____ 0
Reason: _____
On hand at end of month _____ 0

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

State Lease No. STATE 428 #1

Federal Lease No. _____

Indian Lease No. _____

Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY Grand FIELD/LEASE STATE 428 #1
Meadow Creek Prospect

The following is a correct report of operations and production (including drilling and producing wells) for the month of: May, 19 77.

Agent's Address..... 1110 Denver Club Bldg.
518 17th Street
Denver, Colo. 80202
Phone No. (303-573-5665)

Company..... The Anschutz Corporation
Signed..... Beth Zierba
Title..... Production Clerk

Well No.	Range	Twp.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
									Completion operations Temporarily Suspended.

GAS. 347F.

	0
Wanted	0
Off Lease	0

OIL or CONDENSATE: (To be reported in Barrels)

On hand at beginning of month 0

Produced during month 0

Sold during month 0

Unavoidably lost 0

Reason:

On hand at end of month 0

Reason:

On hand at end of month 0

1. **WATER-BEARING ROCK CELLS:** This report is required only for wells that penetrate the water-bearing rock cells of the aquifer. The report must be filed **THIS REPORT MUST BE FILED**

STATE OF UTAH

State Lease No. STATE 428 #1

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

Federal Lease No.
Indian Lease No.
Fee & Pat.

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY Grand FIELD/LEASE STATE 428 #1
Meadow Creek Prospect
 The following is a correct report of operations and production (including drilling and producing wells) for the month of:
June, 1977

Agent's Address.....1110 Denver Club Bldg.
.....518 17th Street
.....Denver, Colo. 80202
Phone No.....

Company.....The Anschutz Corporation
Signed.....*Beth Willett*
Title.....Production Clerk

and No.	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
										Completion operations Temporarily Suspended.

GAS. AMFE

	0
Wanted	0
Off Lease	0

OIL or CONDENSATE: (To be reported in Barrels)

On hand at beginning of month0.....
 Produced during month0.....
 Sold during month0.....
 Unavoidably lost0.....
 Reason:
 On hand at end of month0.....

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML 27428
2. NAME OF OPERATOR BUCKHORN PETROLEUM CO.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---
3. ADDRESS OF OPERATOR P. O. Box 5928 T.A.; Denver, COLO 80217		7. UNIT AGREEMENT NAME Cherry Canyon Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 874' FSL & 1850' FEL (SW SE) Sec. 5-T16S-R22E Grand County, Utah		8. FARM OR LEASE NAME STATE 428
14. PERMIT NO. 43-019-30169 7/20/73		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7313' GL; 7325' KB; 7324' DF		10. FIELD AND POOL, OR WILDCAT Cherry Canyon/Dakota
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW 1/4 SE 1/4 Sec. 5-T16S-R22E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) Change of Operator	XXX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) Change of Operator	XX

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Effective 7:00 a.m. 11-1-82 Buckhorn Petroleum Co. has sold its interest in the subject well and lease, and relinquished operations thereof to:

MR. LLOYD N. DISHMAN
P. O. Box 1038
Fruita, CO 81521
Phone: 303/858-3724

Managed by: A. M. (A1) Crews
CREWS ESCROW & PROPERTY MGMT
P. O. Box 177
Fruita, CO 81521
Phone: 303/858-9245

By copy of this notice, we are hereby advising Mr. Dishman of his responsibility to post the appropriate bond and to fulfill all obligations of Operator in accordance with the rules and regulations of the local, state, and federal governing bodies.

18. I hereby certify that the foregoing is true and correct

SIGNED Mark E. Neems

TITLE Production Engineer

DATE December 2, 1982

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 7, 1983

Lloyd N. Dishman
P. O. Box 1038
Fruita, Colorado 81521

Re: Well No. Cherry Canyon Unit
State # 428- #1
Sec. 5, T. 16S, R. 22E.
Grand County, Utah

Gentlemen:

The above referred to well has been under an operation suspended status for six months or longer. Please inform this office of the current status of this well location or what operations are currently being performed on the well. Enclosed please find Form OGC-1B (Sundry Notices and Reports on Wells), that you may use to inform our office of this information.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self-addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Well Records Specialist

CF/cf
Enclosure

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. ML 27428
2. NAME OF OPERATOR Lloyd N. Dishman		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 1038, Fruita, CO 81521		7. UNIT AGREEMENT NAME Cherry Canyon Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Section 5 T16S R22E Grand County, Utah		8. FARM OR LEASE NAME State 428 - #1
14. PERMIT NO. 43-019-30/69 7/20/73		9. WELL NO. #1
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 7313 GL; 7325'KB 7324 DF		10. FIELD AND POOL, OR, WILDCAT Mancos & Cherry Canyon/Dakota
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 5 T16S R22E
		12. COUNTY OR PARISH Grand County
		13. STATE Wild

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☒
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

☐
☐
☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Start on January 1, 1983Unloading work over fluids and first delivery.

Some delay expected due to weather and road conditions.

Subsequent report will follow.

RECEIVED
MAR 10 1983DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNATURE

Lloyd N. Dishman

TITLE

Operator

DATE

3-11-83

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 30, 1983

Lloyd N. Dishman
P. O. Box 1038
Fruita, Colorado 81521

Re: Well No. Cherry Cny Unit St # 428-1
874' FSL, 1850' FEL
SW SE, Sec. 5, T. 16S, R. 22E.
Grand County, Utah

Gentlemen:

The above referred to well have been under an operation suspended status for six months or longer. Please inform this office of the current status of this well location or what operations are currently being performed on these well. Enclosed please find Form OGC-1B (Sundry Notices and Reports on Wells), that you may use to inform our office of the matter requested above.

We will be happy to acknowledge receipt of response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Well Records Specialist

CF/cf
Enclosure



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 2, 1984

Lloyd N. Dishman
P. O. Box 1038
Fruita CO 81521

2nd NOTICE

Re: Well No. Cherry Cny St. #428-1
874' FSL, 1850' FEL SW/SE
Sec. 5, T. 16S, R. 22E.
Grand County, Utah

Gentlemen:

The above referred to well has been under an operation suspended status for six months or longer. Please inform this office of the current status of this well location or what operations are currently being performed on this well. Enclosed please find Form OGC-1B (Sundry Notices and Reports on Wells), that you may use to inform our office of the matter requested above.

****You are in violation with the above rule. If you wish to continue developing business in the State of Utah, compliance with pertinent rules and regulations is essential. Further delay in your attention to the above matter may result in punitive action. Please submit the required information as stated above within fifteen (15) days.**

*All Crews called
2/8/84. Called for
persons to comply.
Sent 2/8/84 g*

Respectfully,

Claudia Jones
Claudia Jones
Well Records Specialist

CJ/cj
Enclosure



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 8, 1984

Al Crews
Box 177
Fruita CO 81521

RE: Well No. State 428 #1
API #43-019-30169
874' FSL, 1850' FEL SW/SE
Sec. 5, T. 16S, R. 22E.
Grand County, Utah

Dear Mr. Crews:

Thank you for your telephone conversation of today. I have enclosed all the necessary forms for drilling oil and gas wells in the State of Utah which should be filed with this office.

Your concern and prompt attention to this matter is greatly appreciated.

Respectfully,

Claudia Jones
Well Records Specialist

CJ/cj
enclosures
cc: Dianne R. Nielson, Director
Harold Balthrop, Associate Director

Crews Escrow and Property Management

P.O. Box 177
144 NORTH MESA
FRUITA, COLORADO 81521

A. M. CREWS



March 12, 1984

DIVISION OF
OIL, GAS & MINING

Dear Ms. Jones:

Re: Well No. State 428 #1, Grand County, Utah

After discussing this well with you on the telephone, I am sending you the well completion report and wish to advise we are unable to locate the logs at this time.

If and when we are able to locate the company that made the logs, we will obtain a copy and forward to your office.

Respectfully,

CREWS ESCROW

A handwritten signature in cursive script that reads "A. M. Crews".

A. M. Crews

AMC/dc

Enclosure: Well Completion Report

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>			
b. TYPE OF COMPLETION:							
NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESERVE <input type="checkbox"/>	Other <input type="checkbox"/>		
2. NAME OF OPERATOR LLOYD N. DISHMAN							
3. ADDRESS OF OPERATOR % Crews Escrow, P.O. Box 177, Fruita, CO 81521							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface SW 1/4 SE 1/4 Sec. 5 874' RSL At top prod. interval reported below 1850' FEL At total depth							
14. PERMIT NO. 43-019-30169				DATE ISSUED 7-20-75			
15. DATE SPUDDED 9-14-73		16. DATE T.D. REACHED 11-19-73		17. DATE COMPL. (Ready to prod.) 1-29-74		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7313' GR, 7325' RKB	
20. TOTAL DEPTH, MD & TVD 9865'		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7626-7655 Mancos 9778-9784 Dakota 9680-9703 Dakota 9805-9845 Cedar Mountain		25. WAS DIRECTIONAL SURVEY MADE					
26. TYPE ELECTRIC AND OTHER LOGS RUN <u>IES, ADC, CNL-GR</u> Mudlog						27. WAS WELL CORED no	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
13-3/8"	45	93'	17-1/4"	120 Sacks		none	
9-5/8"	26	951'	12-1/4"	550 "		"	
7-5/8"	23-26	6076'	8-3/4"	150 "			
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)			
4-1/2"	5850	9849	188				
30. TUBING RECORD							
SIZE	DEPTH SET (MD)	PACKER SET (MD)					
2-3/8	9588'	9588' ✓					
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
Interval*	Size	JPF	Shots	Formation			
7626-7640		2		Mancos			
9685-9695		2	21	Dakota			
9778-9782		1	5	"			
9810-9820	.27"	1		Cedar Mtn.			
9828-9834	"	1		"			
9837-9839	"	1		"			
33. PRODUCTION							
DATE FIRST PRODUCTION 1-1-83		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing			WELL STATUS (Producing or shut-in) Producing		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
				449			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS							

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

DATE

*(See Instructions and Spaces for Additional Data on Reverse Side)

THE FOLLOWING METERS WILL HAVE CALIBRATION / SETTLEMENT TESTS RUN ON THE DATES INDICATED. STARTING TIME WILL BE 0800 OR AS SPECIFIED BELOW AND AT THE OFFICE OF THE NORTHWEST PIPELINE GRAND JUNCTION DISTRICT YOU WILL BE NOTIFIED SHOULD ANY CHANGES OCCUR IN THIS SCHEDULE. IF YOU HAVE ANY QUESTIONS ABOUT THE SCHEDULE, CONTACT OR WRITE THE DISTRICT OFFICE.

METER CODE	WELL NAME	LQC	RUN	DAY	MO/YR	STARTING TIME
92124010	STATE 428 #1 14S. 22E. 5	06	03	13	12/85	1000
92125017	STATE 913 #1A 14S. 22E. 9	06	03	13	12/85	1100



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 11, 1984

Mr. Al Crews ^{PO BOX}
~~P.O. Box 177~~ ¹⁰³⁴
Fruita, Colorado 81521

Dear Mr. Crews:

Re: State 428-1, Sec. 5, T16S, R22E, Grand County, Utah, Lease No.
ML-27428. 43-019-30169

State 913-1-A, Sec. 9, T16S, R22E, Grand County, Utah, Lease
No. ML-21913. 43-019-30193

The above referenced well locations were inspected on July 11, 1984 and were found to be inadequate for the following reasons:

State 428-1 is in violation of Rule C-7 Identification which requires a sign bearing the name of the operator, the lease name, and the location by quarter, section, township and range. The pit fence is in need of repair and strengthening as it was knocked down by cattle. The tank also needs to be sealed before and after each pickup.

The State 913-1-A well is also in violation of Rule C-7 Identification. This tank also lacks seals on the valves. Furthermore, if the discharge to the pit is unuseable for livestock the pit must be fenced to keep them out.

Your prompt attention to correct these matters will be greatly appreciated.

Respectfully,

William Moore
Oil and Gas Field Specialist

sb
Enclosures
96860-17

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SEP 12 1994

DIV. OF OIL, GAS & MINING

Lease Designation and Serial Number:

ML-27428

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:

J.C. Thompson

3. Address and Telephone Number:

5000 S. Quebec; #640; Denver, CO 80237; (303) 220-7772

4. Location of Well

Footages:

CO Sec. T, R, M.: SWSE Sec. 5-T16S-R22E

6. If Indian, Allocated or Tribe Name:

7. Unit Agreement Name:

Cherry Canyon

8. Well Name and Number:

State 428-1

9. API Well Number:

4301930169

10. Field and Pool, or Wildcat:

Cherry Canyon

County: Grand

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit in Duplicate)

- ☐ Abandonment ☐ New Construction
- ☐ Casing Repair ☐ Pull or Alter Casing
- ☐ Change of Plans ☒ Recompletion
- ☐ Conversion to Injection ☐ Shoot or Acidize
- ☐ Fracture Treat ☐ Vent or Flare
- ☐ Multiple Completion ☐ Water Shut-Off
- ☐ Other _____

Approximate date work will start 10-10-94

SUBSEQUENT REPORT

(Submit Original Form Only)

- ☐ Abandonment ☐ New Construction
- ☐ Casing Repair ☐ Pull or Alter Casing
- ☐ Change of Plans ☐ Shoot or Acidize
- ☐ Conversion to Injection ☐ Vent or Flare
- ☐ Fracture Treat ☐ Water Shut-Off
- ☐ Other _____

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Intend to permanently abandon Dakota and complete as Mancos gas well.
Plan as follows:

1. Remove Baker Loc-Set packer set at 9,588'.
2. Set 40 sx cement plug from 9,795' to 9,243' in 4 1/2" casing to cover perforations at 9,685' - 9,782'. Otis Perma-Trieve packer stuck at 9,795'; but cement will be pumped through packer.
3. Set retrievable plug inside 4 1/2" casing at \pm 7,700'.
4. Recomplete in Mancos zone at 7,619-33'.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MINING

13.

Name & Signature:

J.C. Thompson

DATE:

BY: Title

9-9-94

(This space for State use only)

Notify DOGM 24 hrs prior
to pumping cement.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 30, 1985

Lloyd N. Dishman
P.O. Box 1038
Fruita, Colorado 81521

Dear Mr. Dishman:

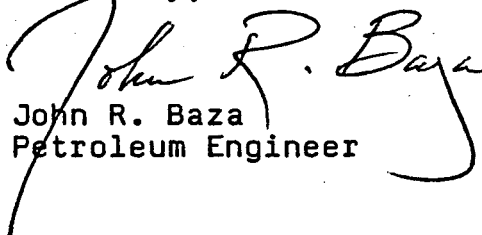
RE: Well No. 428-1, Sec.5, T.16S, R.22E, Grand County, Utah and 43-019-36169
Well No. 913-1A, Sec.9, T.16S, R.22E, Grand County, Utah 43-019-30193

This letter is a follow up to your conversation with William Moore of this Division on May 15, 1985, regarding the above referenced wells.

At that time, it was requested that well signs be placed on both sites, that the berms around the storage tanks be built up and that the valves on the tanks be properly sealed and secured. It was also brought to your attention at that time that both sites have their existing reserve pits which are currently being used for livestock in the summer. Because these reserve pits were associated with the drilling operation, it is necessary that if drilling has terminated, the pit must be rehabilitated.

Upon resolution of the above mentioned deficiencies, please submit a sundry notice stating what was done and when it was completed so that follow up inspections can be arranged. If there are any questions please contact William Moore of this office. Your prompt attention to these matters will be greatly appreciated.

Sincerely,


John R. Baza
Petroleum Engineer

WM/sb

cc: State Lands and Forestry
D.R. Nielson
R.J. Firth

9686T-88

State Of Utah
Natural Resources
Oil, Gas, & Mining

RECEIVED

JUN 21 1985

DIVISION OF OIL
GAS & MINING

Att. William Moore

Dear Sir,

RE: Well No. 428-1 Sec. 5 T 16 S R22 E Grand County, Utah
Well No. 913-1A Sec 9 T16S R22E Grand County, Utah

We request these pits be left open for stock ponds as in
previous conversations with you please advise as soon as possible,
Thank You.

Sincerely,

Jim Tomlinson

Jim Tomlinson
(Forster) (Lorman)
for Willow Creek Ranch

cc Lloyd N. Dishman

Lloyd N. Dishman

J. C. THOMPSON
INDEPENDENT OIL OPERATOR
410 - 17TH STREET, SUITE 1305
DENVER, COLORADO 80202

RECEIVED
SEP 27 1989

DIVISION OF
OIL, GAS & MINING

September 25, 1989

Ms. Vicky Carney
State of Utah
Division of Oil, Gas, & Mining
355 W. North Temple
3 Triad Center; Suite 350
Salt Lake City, UT 84180

Dear Ms. Carney:

As per your request today, enclosed are production reports for the State 913-1A and 428 #1 wells for the following months:

August 1987
September 1987
December 1988
May 1989
June 1989
July 1989

Please add these two wells to our Monthly Production Report for Account No. N1240. Also enclosed are Designation of Operator forms for both leases executed by National Fuel Corporation (successor to Lloyd Dishman) and NICOR Exploration Company.

If you have any additional questions, please contact the undersigned.

Sincerely,

Brenda K. Fuechsel

Brenda K. Fuechsel

/bkf

Enclosures

RECEIVED
SEP 27 1989

DIVISION OF
OIL, GAS & MINING

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Department of Natural Resources, Division of State Lands, holder of lease, ML-27428:

and hereby designates

J.C. Thompson
410-17th Street; #1305
Denver, CO 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Director of the Division of State Lands or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations Governing the Issuance of Mineral Leases with respect to:

Township 16 South - Range 22 East, SLM
Section 5: S 1/2.

320 Acres

43-019-30169

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Director, Division of State Lands or his representative.

The lessee agrees promptly to notify the Division of State Lands of any change in the designated operator.

NATIONAL FUEL CORPORATION

J.C. Thompson

Date: 7-25-89

410-17th Street; #1305
Denver, CO 80202

RECEIVED
SEP 27 1989

DIVISION OF
OIL, GAS & MINING

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Department of Natural Resources, Division of State Lands, holder of lease, ML-27428:

and hereby designates

J.C. Thompson
410-17th Street; #1305
Denver, CO 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Director of the Division of State Lands or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations Governing the Issuance of Mineral Leases with respect to:

Township 16 South - Range 22 East, SLM
Section 5: S 1/2.

320 Acres

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Director, Division of State Lands or his representative.

The lessee agrees promptly to notify the Division of State Lands of any change in the designated operator.

NICOR EXPLORATION COMPANY

BY: 

Keith Swart, Attorney-In-Fact

1050 - 17th Street; #100

Denver, CO 80265

Date: May 15, 1988

J. C. THOMPSON

INDEPENDENT OIL OPERATOR
6500 SOUTH QUEBEC, SUITE 210
ENGLEWOOD, COLORADO 80111

January 21, 1993

RECEIVED

JAN 25 1993

DIVISION OF
OIL GAS & MINING

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
Attn: Don Staley
355 West North Temple
3 Triad Center; Suite 350
Salt Lake City, UT 84180-1203

Re: Annual Status Reports on Shut-in, Temporarily-abandoned, and
Suspended-Drilling Wells

Dear Mr. Staley:

Enclosed for your approval are Sundry Notices for wells in
Utah operated by J.C. Thompson which are currently shut-in. If you
have any questions, please contact our office.

Sincerely,

Brenda K. Mayland

Brenda K. Mayland

Enclosures

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:
J.C. THOMPSON

3. Address and Telephone Number:
6500 S. QUEBEC: #210: ENGLEWOOD, CO 80111 (303) 220-7772

4. Location of Well 874' FSL 1850' FEL
Footages:

QQ, Sec., T., R., M.: SWSE Sec. 5-T16S-R22E

5. Lease Designation and Serial Number:

ML-27428

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Cherry Canyon

8. Well Name and Number:

State 428-1

9. API Well Number:

4301930169

10. Field and Pool, or Wildcat:

Cherry Canyon

County: GRAND

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

ANNUAL STATUS REPORT

Well has been shut in since December 1989 due to mechanical problems.

RECEIVED

JAN 25 1993

DIVISION OF
OIL GAS & MINING

13.

Name & Signature:

Brenda K Mayland

Title:

Office Mgr.

Date:

1/21/93

(This space for State use only)



State of Utah

Department of
Natural Resources

Division of
Oil, Gas & Mining

ROBERT L. MORGAN
Executive Director

LOWELL P. BRAXTON
Division Director

MICHAEL O. LEAVITT
Governor

OLENE S. WALKER
Lieutenant Governor

March 19, 2004

CERTIFIED MAIL NO. 7002 0510 0003 8602 6471

Sally Sanchez
J.C. Thompson Company
7979 E Tufts Avenue Pkwy
Suite 815
Denver, Colorado 80237-2843

Re: Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases.

Dear Ms. Sanchez:

Thompson, J.C. Company, as of March 2004, has two (2) State Lease Wells (see attachment A) that are currently in non-compliance for extended shut-in or temporary abandonment status. Wells SI/TA beyond twelve (12) consecutive months requires filing a Sundry Notice (R649-3-36-1). Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (R649-3-36-1.3.3). For extended SI/TA consideration the operator shall provide the Utah Division of Oil, Gas & Mining with the following:

1. Reasons for SI/TA of the well (R649-3-36-1.1).
2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

Page 2
Sally Sanchez
March 19, 2004

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram, and
2. Copy of recent casing pressure test, and
3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
4. Fluid level in the wellbore, and
5. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,



Dustin K. Doucet
Petroleum Engineer

jc
cc: John Baza
Well File
SITLA

	Well Name	API	Lease Type	Years Inactive
1	State 428 1	43-019-30169	State	9 Years 2 Months
2	Peterson Springs 1	43-019-30706	State	1 Year 9 Months

Attachment A

AREA CODE 303
PHONE 220-7772

FAX
220-7773

National Fuel Corporation

7979 EAST TUFTS AVENUE PARKWAY, SUITE 815
DENVER, COLORADO 80237-2843



April 29, 2004

VIA FEDEX

Dustin K. Doucet
Petroleum Engineer
State of Utah
Dept. of Natural Resources
Div. of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

**RE: J. C. THOMPSON OPERATED SHUT-IN & TEMPORARILY ABANDONED WELLS
STATE #428-1 AND PETERSON SPRINGS #1**

Dear Mr. Doucet:

This is written pursuant to your letter dated March 19 regarding the above-referenced wells. We would like to take this opportunity to thank you for the extension from the original April 18 deadline in filing our reply.

Please find attached duplicate Sundry Notices for each well, notifying the State that J. C. Thompson intends to return the wells to production by the end of May (for the Peterson Springs #1 well) and by the end of June (for the State #428-1 well).

Please contact me if there are further questions regarding this matter.

Sincerely,

Diane Thompson
J.C. Thompson Independent Operator

RECEIVED

MAY 03 2004

DIV. OF OIL, GAS & MINING

Encl. (Duplicate copies of Sundry Notices & Reports on subject wells)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER ☐

2. NAME OF OPERATOR:

J. C. Thompson

3. ADDRESS OF OPERATOR:

7979 E. Tufts Av-#815 CITY Denver

STATE CO

ZIP 80237

PHONE NUMBER:

(303) 220-7772

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML-27428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Cherry Canyon

8. WELL NAME and NUMBER:

State 428-1

9. API NUMBER:

4301930169

10. FIELD AND POOL, OR WILDCAT:

Cherry Canyon

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 874' NSL; 1850' WEL

COUNTY: Grand

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 5 16S 22E

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input checked="" type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u>SL/TA extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Request extension of Shut-In/Temporarily Abandoned Status until end of June when subject well will be returned to production.

COPY SENT TO OPERATOR

Date: 5-12-04

Initials: CHD

RECEIVED

MAY 10 2004

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Diane Thompson

TITLE

SIGNATURE

Diane Thompson

DATE

4/29/2004

(This space for State use only)

(5/2000)

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MINING

DATE: 5/10/2004
BY: Dorothy Berg

* See attached letter dated May 10, 2004



State of Utah

Department of
Natural Resources

Division of
Oil, Gas & Mining

ROBERT L. MORGAN
Executive Director

LOWELL P. BRAXTON
Division Director

May 10, 2004

CERTIFIED MAIL NO. 7002 0510 0003 8602 5061

Ms. Diane Thompson
National Fuel Corporation
7979 East Tufts Avenue Parkway, Suite 815
Denver, Colorado 80237-2843

Re: Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases dated March 19, 2004. (J.C. Thompson Operated)

Dear Ms. Thompson,

The Division of Oil, Gas and Mining (DOGM) is in receipt of your letter and sundries dated April 29, 2004 (received by the Division on 5/03/2004) in regards to the two (2) shut-in wells operated by J.C. Thompson. It is the Division's understanding J.C. Thompson requests extended shut-in and temporary abandonment for the Peterson Springs #1 and State 428-1 so these wells may be returned to production in May and June respectively. The DOGM grants the following extensions, for the Peterson Springs #1 until May 31st, 2004 and for the State 428-1 until June 30th, 2004 as requested.

For reference, Attachment A lists the wells subject to this request. If you have any questions or need additional assistance in regards to the above matters please contact me at (801) 538-5281.

Sincerely,

Dustin Doucet
Petroleum Engineer

	Well Name	API	Lease Type	Years Inactive
1	State 428 1	43-019-30169	State	9 Years 2 Months
2	Peterson Springs 1	43-019-30706	State	1 Year 9 Months

Attachment A

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached list
2. NAME OF OPERATOR: J.C. THOMPSON OPERATOR, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 7979 E Tufts Ave Pkwy #815 CITY Denver STATE CO ZIP 80237		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (303) 220-7772		8. WELL NAME and NUMBER: see attached list
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:

COUNTY: Grand

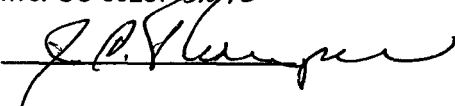
STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective March 17, 2005, J.C. Thompson Operator, LLC became the operator of all wells on the attached list, which were previously operated by J.C. Thompson.

previous operator: J.C. Thompson
7979 E Tufts Ave Pkwy #815 N1240
Denver CO 80237-2873

by: 

new operator: J.C. Thompson Operator, LLC
7979 E Tufts Ave Pkwy #815 N2805
Denver CO 80237-2843

State + Fee BOND # LPM 8756586
BLM Bond # LPM 4021517

NAME (PLEASE PRINT) J.C. Thompson	TITLE Member and Manager
SIGNATURE 	DATE 3/17/2005

(This space for State use only)

APPROVED 8/24/05

(5/2000)

Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

MAY 25 2005

DIV. OF OIL, GAS & MINING

SCHEDULE OF PROPERTIES

J C Thompson Operator, LLC
(effective March 17, 2005)

<u>API No.</u>	<u>Lease No.</u>	<u>Well Name</u>	<u>Location (Grand County, Utah)</u>	
4301930169	ML-27428	State 428 #1	SWSE	5-T16S-R22E
4301930193	ML-21913	State 913 #1A	C SE	9-T16S-R22E
4301930706	ML-27406	Peterson Springs #1	NWSE	14-T17S-R21E
4301916206	UTU-05109	Horse Point Unit 1-X	NWNE	14-T16S-R23E
4301920154	UTU-020509	Horsepoint M-4	SENE	6-T17S-R24E
4301930013	ML-21613	Horsepoint M-6	NESE	32-T16S-R24E
4301930049	UTU-029600	Horsepoint M-7	SWNW	6-T17S-R24E
4301915671	UTU-02981	Moonridge 31-15	NWNE	15-T16S-R21E
4301915672	UTU-03008A	Segundo #2	SWSE	33-T16S-R21E
4301915673	UTU-04600	Segundo #23-4	NESW	4-T17S-R21E
4301930895	SL-071892	Westwater C-1	NENW	12-T17S-R23E
4301930891	SL-071892	Westwater D-1	SESE	11-T17S-R23E
4301930853	SL-071893	Westwater Unit #3	S2N2NW	13-T17S-R23E
4301930852	SL-071893	Westwater Unit #5	NESW	18-T17S-R24E
4301930892	SL-071892	Westwater B-1	NWSW	17-T17S-R24E
4301915657	SL-071892	Westwater E2	SWSE	7-T17S-R24E
4301915649	SL-071892	Castlegate 2	SWNW	18-T17S-R24E
4301915650	SL-071893	Westwater Castlegate 4	NENE	13-T17S-R23E
4301915652	SL-071892	Westwater Castlegate 6	SENW	18-T17S-R24E
4301915653	UTU-04011	Westwater Castlegate 7	NESE	7-T17S-R24E
4301915656	SL-071892	Castlegate D-2	NWNE	18-T17S-R24E
4301915654	SL-071891	Westwater C9-10	SWSE	10-T17S-R23E
4301930077	SL-071892	Westwater E5	NWNE	18-T17S-R24E
4301915658	SL-071892	Westwater E3	NENW	17-T17S-R24E
4301915662	UTU-04011	Westwater M3	NWNW	7-T17S-R24E

SCHEDULE OF PROPERTIES
J C Thompson Operator, LLC
Page 2

<u>API No.</u>	<u>Lease No.</u>	<u>Well Name</u>	<u>Location (Grand County, Utah)</u>	
4301915660	SL-071567	Westwater M1	SESW	1-T17S-R23E
4301915661	SL-071892	Westwater M2	NWSE	12-T17S-R23E
4301915647	UTU-026A	Bryson Canyon Govt #1	SWSW	8-T17S-R24E
4301930641	UTU-15889	Middle Canyon #4-30	SWSW	30-T16S-R24E
4301930925	UTU-30123	Middle Canyon #11-30	SENW	30-T16S -R24E

3. FILE

Designation of Agent/Operator

Merger

3/17/2005

TO: (New Operator):

N2805-J. C. Thompson Operator, LLC
7979 E Tufts Ave Pkwy, Suite 815
Denver, CO 80237-2843

Phone: 1-(303) 220-7772

Unit:

WELL(S)

[illegible]

OPERATOR CHANGES DOCUMENTATION

2. (R649-8-10) Sundry or legal documentation was received from the NEW operator on: 5/25/2005

5. If **NO**, the operator was contacted contacted on: _____ 5/31/2005

requested 8/24/05

PENDING **due to name change on bond

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/26/2005

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 8/24/2005
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 8/24/2005
3. Bond information entered in RBDMS on: 8/24/2005
4. Fee/State wells attached to bond in RBDMS on: 8/24/2005
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: U0068

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: n/a

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number LPM8756586**
2. The FORMER operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

** Bond rider deleted J. C. Thompson and added J. C. Thompson Operator, LLC



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 14, 2008

CERTIFIED MAIL NO.: 7004 2510 0004 1824 5957

Ms. Diane Thompson
JC Thompson Operators, LLC
7979 East Tufts Ave Parkway, #815
Denver, CO 80237-2843

43 019 30169
State 428 1
16S 22E 5

Re: Second Notice of Extended Shut-in and Temporarily Abandoned Well Requirements for Wells on Fee or State Leases

Dear Ms. Thompson:

As of July 2008, JC Thompson Operators has two (2) State Mineral Lease Wells (see Attachment A) that are in non-compliance with the requirements for extended shut-in or temporarily abandoned (SI/TA) status. Wells SI/TA beyond twelve (12) consecutive months require the filing of a Sundry Notice in accordance with R649-3-36-1 for Utah Division of Oil, Gas & Mining ("DOGM" or "Division") approval. Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (R649-3-36-1.3.3).

In May 2004, the Division notified you by certified mail that the two wells listed (State 428-1 and Peterson Springs #1) were granted temporary extension so that they may be returned to production in May and June 2004. The extensions were as follows: Peterson Springs #1 until May 31st, 2004 and State 428-1 until June 30th, 2004 as requested. DOGM feels more than sufficient time has passed (well beyond the request for extension) to return the wells to production. Please submit your plans to produce or plug these wells to DOGM within 30 days of this notice or further actions will be initiated.

For extended SI/TA consideration the operator shall provide the Division with the following:

1. Reasons for SI/TA of the well (R649-3-36-1.1).



Page 2
August 14, 2008
Ms. Diane Thompson

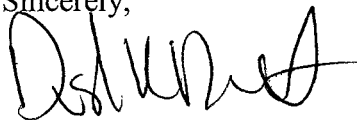
2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram, and
2. Copy of recent casing pressure test, and
3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
4. Fluid level in the wellbore, and
5. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, further actions will be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,



Dustin K. Doucet
Petroleum Engineer

JP/js
Enclosure

cc: Jim Davis, SITLA
Well File
Operator Compliance File

ATTACHMENT A

	Well Name	Location	API	Lease Type	Years Inactive
1	STATE 428-1	SWSE Sec 05 16S-22E	43-019-30169	ML-27428	3 Years 0 Months
2	Peterson Springs #1	NWSE Sec 14 17S-21E	43-019-30706	ML-27406	1 Year 2 Months

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-27428	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
7. UNIT or CA AGREEMENT NAME: Cherry Canyon	
8. WELL NAME and NUMBER: State #428-1	
9. API NUMBER: 4301930169	
10. FIELD AND POOL, OR WILDCAT: Cherry Canyon	
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	
2. NAME OF OPERATOR: JC Thompson Operator, LLC	
3. ADDRESS OF OPERATOR: 8400 E Prentice, #1100 CITY Greenwood Vill STATE Co ZIP 80111	
4. LOCATION OF WELL FOOTAGES AT SURFACE: COUNTY: Grand	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 5 16S 22E STATE: UTAH	

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 10/15/2008	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input checked="" type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: squeeze cement
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

2. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry Notice is being submitted for for notification of plans to integrity test the production casing string and repair as needed in the State #428-1 well. After testing and repairing, the well will be returned to production. Please review the following procedure. We will move a rig to location after repairs are complete on the Peterson Springs #1. COPY SENT TO OPERATOR

1. MIRU
2. ND wellhead. NU BOP.
3. Pull out with tubing(tbg).
4. Run wireline set cement retainer and set above top Mancos perf at 7620'.
5. Run in tubing and sting into retainer. Squeeze Mancos perforations with 100 sacks of class G cement
6. Sting out of retainer. Circulate well bore with 2% KCL water.
7. Pressure test 4 1/2" and 7" to 500#. If pressure does not hold, isolate problem area using a packer and then proceed with remedial cementing.
8. If pressure holds, drill out retainer and cement.
9. Rig up wireline truck and run bond log at Mancos interval.
10. If bond is adequate, reperforate Mancos at 7618' to 7632' and frac if needed. Return well to production.

If remedial cementing is required, DOGM will be notified via a Sundry Notice which will include a new procedure for repairing damaged casing. Additionally, if a decision is made to P&A the well, DOGM will be notified through a Sundry notice with a P&A procedure included.

NAME (PLEASE PRINT) Andrew Busch	TITLE VP of Operations
SIGNATURE Andrew Busch (By Dr)	DATE 9/5/2008

space for State use only)

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 9/25/08
BY: [Signature]

RECEIVED

SEP 08 2008

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML-27428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

NA

7. UNIT or CA AGREEMENT NAME:

Cherry Canyon

8. WELL NAME and NUMBER:

State #428-1

9. API NUMBER:

4301930169

10. FIELD AND POOL, OR WILDCAT:

Cherry Canyon

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

2. NAME OF OPERATOR:

JC Thompson Operator, LLC

3. ADDRESS OF OPERATOR:

8400 E Prentice, #1100 CITY Greenwood Vill STATE Co ZIP 80111

PHONE NUMBER:

(303) 220-7772

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: Grand

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 5 16S 22E

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will start:

5/1/2009

☐ SUBSEQUENT REPORT
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☒ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☐ OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry Notice is being submitted for notification of plans to plug and abandon the State #428-1. This well is currently incapable of producing in profitable quantities and holds little promise that it could be returned to production without great expense. Please review the following procedure.

1. MIRU

2. ND Wellhead. NU BOP and run in with tubing to 7650'.

3. 4. Pump 100 sacks of class G cement across Mancos perms at 7618' to 7632'.

5. Pull 40 joints and allow cement to cure.

6. Run in tubing and tag to confirm coverage across perforated interval.

7. Fill hole with fresh water.

8. Pull tubing up to 5950'.

2. 9. Balance 100 sack class G plug across 4 1/2" X 7" liner top at 5850'.

10. Pull 40 joints and allow cement to cure.

11. Run in tubing and tag to confirm coverage across liner top.

12. Pull tubing and perforate 7" at 100' from surface.

13. Establish circulation through 7" X 9 5/8" annulus.

3. 14. Circulate 50 sacks of class G cement down 7" and return to surface through 9 5/8". Top off as needed.

15. Remove wellhead and erect surface marker. Remove surface equipment from location.

COPY SENT TO OPERATOR

Date: 2.11.2009

Initials: KS

NAME (PLEASE PRINT) Andrew Busch

TITLE VP of Operations

SIGNATURE

Andrew Busch (by DT)

DATE

1/12/2009

(This space for State use only)

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 2/10/09

BY: [Signature]

(See Instructions on Reverse Side)

* See Conditions of Approval (Attached)

RECEIVED

JAN 13 2009

DIV. OF OIL, GAS & MINING



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

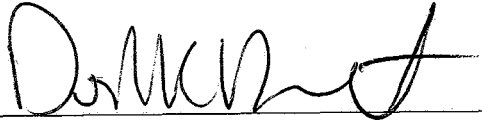
JOHN R. BAZA
Division Director

CONDITIONS OF APPROVAL TO PLUG AND ABANDON WELL

Well Name and Number: State 428-1
API Number: 43-019-30169
Operator: JC Thompson Operator, LLC.
Reference Document: Original Sundry Notice dated January 12, 2009,
received by DOGM on January 13, 2009

Approval Conditions:

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.
2. **Add Plug # 3:** A 100' plug (± 45 sx) shall be placed across the base of the moderately saline groundwater from $\pm 4350'$ to $4250'$ (R649-3-24-3.3). Procedure shall be as follows: RIH and shoot sqz holes @ $4350'$, RIH w/ 7" CICR, set at $4300'$. Sting into CICR, establish injection into 7" x 9 5/8" annulus. If injection is established M&P 45sx and pump ± 35 sx below CICR. Sting out of CICR and dump 10 sx on top of CICR. If injection cannot be established, a 100' plug shall be spotted inside the casing (± 20 sx).
3. **Add Plug # 4:** A 100' plug (± 40 sx) shall be placed across the base of the moderately saline groundwater from $\pm 4350'$ to $4250'$ (R649-3-24-3.6). Procedure shall be as follows: RIH and shoot sqz holes @ $1000'$, RIH w/ 7" CICR, set at $950'$. Sting into CICR, establish injection into 7" x 9 5/8" annulus. If injection is established M&P 40sx and pump ± 30 sx below CICR. Sting out of CICR and dump 10 sx on top of CICR. If injection cannot be established, a 100' plug shall be spotted inside the casing (± 20 sx).
4. All intervals between plugs shall be filled with noncorrosive fluid.
5. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration. Evidence of compliance with this rule should be supplied to the Division upon completion of reclamation.
6. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
7. If there are any changes to the plugging procedure or wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.
8. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.


Dustin K. Doucet
Petroleum Engineer

February 10, 2009
Date



Wellbore Diagram

API Well No: 43-019-30169-00-00

Permit No:

Well Name/No: STATE 428 1

Company Name: J C THOMPSON OPERATOR LLC

GL 7313

Location: Sec: 5 T: 16S R: 22E Spot: SWSE

Coordinates: X: 628080 Y: 4366438

Field Name: CEDAR CAMP

County Name: GRAND

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity ft/cf
HOL1	93	17.5			
COND	93	13.375	48	93	
HOL2	951	12.25			
SURF	951	9.625	32.3	949	2.263
HOL3	6100	8.75			
II	6100	7	23	6100	4.524
HOL4	9880	6.25			
L1	9579	4.5	9.5	4029	10.940
PLG1	9795	4.5			

Plug 5 Perfor. circ to surf, pmp cmt
 $100' / 1.15 (5.726) = 15 \text{ SK}$
 $100' / 1.15 (4.524) = 19 \text{ SK}$
 34 SK

Cement from 93 ft. to surface

Hole: 17.5 in. @ 93 ft.

Cement from 951 ft. to surface

Conductor: 13.375 in. @ 93 ft.

Hole: 12.25 in. @ 951 ft.

Cement from 6100 ft. to surface

Surface: 9.625 in. @ 951 ft.

Add Plug #4 surf shoe: shoot, sqz
 $50' / 1.15 (4.524) = 10 \text{ SK inside}$
 $50' / 1.15 (3.512) = 12 \text{ SK outside}$
 $50' / 1.15 (5.726) = 8 \text{ SK annular}$
 $50' = 10 \text{ SK above}$
40 SK total

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
COND	93	0	UK	120
II	6100	5006'	UK	200
L1	9879	9162		
SURF	951	0	UK	550

Hole 3 w/o 157. = $8.75 (1.15) = 10.06$

$$\frac{183.35}{(10.06)^2} = 1.811$$

Hole 3 w/ 7"

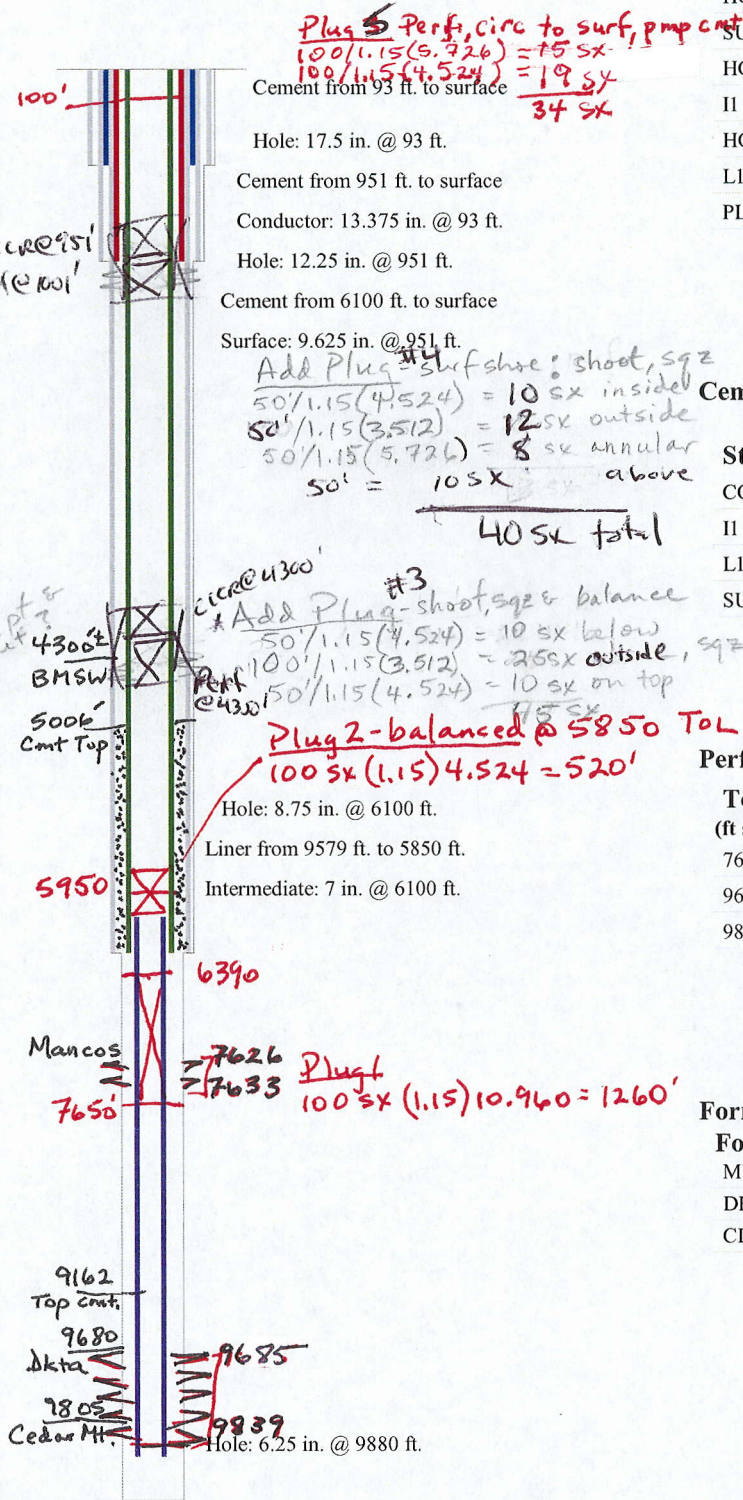
$$\frac{183.35}{(10.06)^2 - 7^2} = 3.512$$

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
7626	7633			
9685	9872			
9810	9839			

Formation Information

Formation	Depth
MNCS	7626
DKTA	9680
CDMTN	9805



TD:

9865 TVD:

PBTD:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-27428
2. NAME OF OPERATOR: JC Thompson Operator, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA
3. ADDRESS OF OPERATOR: 8400 E Prentice, #1100 CITY Greenwood Vill STATE Co ZIP 80111		7. UNIT or CA AGREEMENT NAME: Cherry Canyon
PHONE NUMBER: (303) 220-7772		8. WELL NAME and NUMBER: State #428-1
4. LOCATION OF WELL FOOTAGES AT SURFACE: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 5 16S 22E		9. API NUMBER: 4301930169
		10. FIELD AND POOL, OR WILDCAT: Cherry Canyon
		COUNTY: Grand
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 5/2/2009	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached report describing P&A procedure in detail.

NAME (PLEASE PRINT) Andrew Busch	TITLE VP of Operations
SIGNATURE <i>Andrew Busch</i>	DATE 7/8/2009

(This space for State use only)

RECEIVED

JUL 15 2009

J.C. Thompson
State #428-1 P&A

4/18/09 – Csg- 0#. Tbg – 0#. MIRU Well Pluggers Inc. rig. ND wellhead. NU BOP. Unseated tbg from hanger. POOH and laid down landing jt. First 5' pulling 10K over string weight. Shut in well. SDFD 4:00PM.

4/19/09 – Notified Dan Jarvis at DOGM that we are commencing P&A operations. Strapped and POOH with tbg. Fluid level approximately 2000' from surface. Heavy white greasy substance inside tbg. Look like soap and oil mixture. SN had heavy scale buildup but was not completely plugged. RIH with tbg and hung at 7645' in preparation for cementing Mancos perms.

4/20/09 – L&L Roustabouts hauled cementing equipment to location and hauled surface equipment to HP #13-1 location. H-Twenty filled rig tanks with fresh water.

4/26/09 – RU cementing equipment. Pumped 40 bbls of fresh water down tbg. Circulated 15 bbls of oil out of csg. Mixed and pumped 50 sk class G cement plug down tbg. Balanced across perms at 7618' to 7632'. Displaced with 26 bbls of fresh water. POOH and laid down 51 jts. Reverse circulated tbg. Shut in well. SDFD 3:30PM

4/27/09 – RIH with 23 jts. Tagged cement at 6780'. POOH and laid down 26 jts. End of tbg at 5928'. Liner top at 5850' Mixed and pumped 50 sk plug down tbg. Displaced with 21 bbls of fresh water. POOH and laid down 52 jts. POOH and stood back remaining tbg. Shut in well. SDFD 4:00PM.

4/28/09 – RU DLD wireline service. RIH with CCL and 4 shot perf gun. Tagged cement at 5567'. Pulled up to 4350' and shot 4 squeeze holes. POOH with spent gun and CCL. PU and RIH with CCL and 7" CR. Set CR at 4300'. POOH with CCL and setting tool. RD wireline. PU and RIH with CR stinger and tbg. Stung into CR. RU pump. Pumped away 1 bbl of fresh water. Tbg pressured up to 1500# with no leak off. Made 2 attempts to establish circulation with no success. Stung out of retainer. Mixed and pumped 20 sk plug on top of CR. Displaced with 16 bbls of fresh water. RD pump. POOH with tbg. RU wireline. RIH with CCL and 4 shot perf gun. Shot 4 squeeze holes at 1000'. POOH with CCL and spent gun. PU and RIH with CCL and 7" CR. Set CR at 945'. POOH with CCL and setting tool. PU and RIH with CCL and 2 shot perf gun. Shot 2 squeeze holes at 100'. POOH with spent gun and CCL. RD wireline. RIH with tbg, 12 stands at a time then laying down on D&J trailer. Left 16 stands in the derrick. SDFD 5:00PM.

4/29/09 – PU and RIH with CR stinger and 15 stand. Stung into CR at 945'. Established circulation. Mixed and pumped 40 sk plug. Displaced with 1.9 bbls of fresh water. Stung out of CR leaving 10 sks on top of CR. POOH and laid down tbg and stinger. Broke circulation through squeeze holes at 100'. Mixed and pumped 40 sk plug down 7" and up through 7" X 9 5/8" annulus. Good cement returns at surface. RD cementing equipment. ND BOP. Cement fell back 50' from surface. Cut wellhead from 7" and 9 5/8" csg. Will top off cement on Monday. SDFD 4:00PM.

5/1/09 – Mixed and pumped 56 sack plug down 9 5/8". Did not fill up to surface. Cement 50' from surface in 7" and approximately 100; from surface in 9 5/8". Will bring more cement tomorrow.

5/2/09 – Mixed and pumped 7 sk plug down 9 5/8" csg. Let set 1 hour. Mixed and pumped 17 sk plug down 9 5/8". Let set 4 hours while moving equipment to Peterson Springs. Mixed and pumped 30 sk plug down 9 5/8". Cement spilled over and filled 7". Both strings standing full. Will weld on DH marker and rehab location after rig equipment is off location.